SONY

BLACK AND WHITE VIDEO CAMERA

SPT-M122CE
SPT-M124/M124CE
SPT-M128CE

SERVICE MANUAL

Hyper HAD™

SPT-M124

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This section is extracted from instruction manual.

SONY

3-864-014-**11** (1)

Black and White Video Camera

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Mode d'emploi

Avant de faire fonctionner cet appareil, lisez attentivement le présent mode d'emploi et conservez-le pour toute référence ultérieure.

Manual de instrucciones

Antes de utilizar la unidad, lea las instrucciones con atención y consérvelas para su consulta en el futuro.

Hyper HAD™
SPT-M124
SPT-M122CE/M124CE/M128CE

Sony Corporation © 1998 Printed in Japan

Owner's Record

The model and serial numbers are located on the bottom. Record these numbers in the spaces provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

NOTICE FOR THE SPT-M124
The glaphical symbol is on the unit.
This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For the customers in the U.S.A. (SPT-M124 only)
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed
and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

This device requires shielded interface cable to comply with FCC emission limits.

AVERTISSEMENT

Afin d'éviter tout risque d'incendie ou d'electrocution, ne pas exposer cet appareil à la pluie ou à l'humidité.

Afin d'écarter tout risque d'électrocution, garder le coffret fermé. Ne confier l'entretien de l'appareil qu'à un personnel qualifié.

ADVERTENCIA

Para prevenir el riesgo de incendios o de electrocución, no exponga la unidad a la lluvia ni a la humedad.

Para evitar descargas eléctricas, no abra la unidad. En caso de avería, solicite el servicio de personal cualificado únicamente.

English

Features

The SPT-M124/M122CE/M124CE/M128CE black and white video camera is designed for use in a monitoring system.

- High resolution and high sensitivity with a 1/3 inch Hyper HAD™ (Hyper Hole Accumulated Diode) CCD (Charge Coupled Device) for the image device
- CCD-IRIS function
- AGC (Automatic Gain Control)
- AC line lock (SPT-M124/M124CE/M128CE)
- Can be used with C or CS mount lenses
- Compatible with DC controlled or video signal controlled auto iris lenses
- LEVEL and BLC (Back Light Control) adjustment for various lighting conditions
- Isolated power circuit

* Hyper HAD™ is a registered trademark of Sony Corporation.

Notes on Use

Power supply

- The SPT-M124 must always be operated with a UL-listed 24 V AC, 60 Hz Class 2 power supply. In the U.S.A, use a power supply which is UL listed. In Canada, use a power supply which is CSA Certified.
- The SPT-M124CE must always be operated with a 24 V AC, 50 Hz power supply.
  - — When connecting the transformer, be sure to connect each lead to the appropriate terminal. Wrong connection may cause malfunction and/or damage to the video camera.
  - — Ground the unit or an irregular voltage may be generated in the AC power cord and may cause malfunction and/or damage to the video camera.
- The SPT-M128CE must always be operated with a 220 to 240 V AC, 50 Hz power supply.
- The SPT-M122CE must always be operated with a 12 V DC power supply.

Handling of the unit

Be careful not to spill water or other liquids on the unit, or to get combustible or metallic material inside the body. If used with foreign matter inside, the camera is liable to fail, or to be a cause of fire or electric shock.

Operating and storage locations

Avoid viewing a very bright object (such as light fittings) for an extended period. Avoid operating or storing the unit in the following locations.

- Extremely hot or cold places (operating temperature –10°C to +50°C; 14°F to 122°F, however, we recommend that the unit be used within a temperature range of –5°C to +40°C; 23°F to 104°F)
- Damp or dusty places
- Where it is exposed to rain
- Where it is subject to strong vibration
- Close to generators of powerful electromagnetic radiation such as radio or TV transmitters.

Handling of the lens

As the lens could be damaged if not attached properly, make sure to see the section “Suitable lenses” before attaching it.

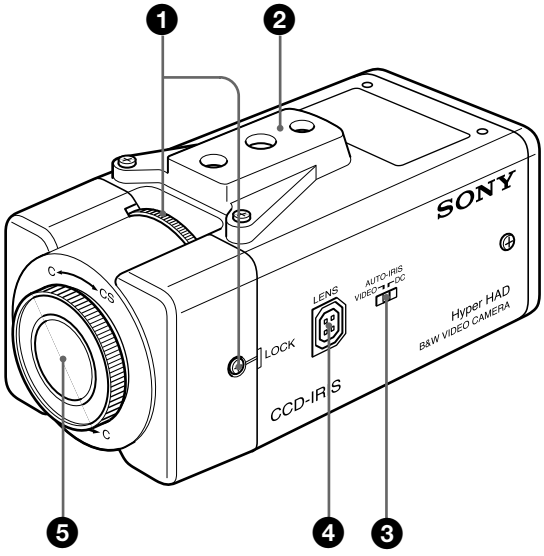
Care of the unit

- Remove dust or dirt on the surface of the lens or CCD with a blower.
- Use a dry soft cloth to clean the body. If it is very dirty, use a cloth dampened with a small quantity of neutral detergent, then wipe dry.
- Avoid the use of volatile solvents such as thinners, alcohol, benzene, and insecticides. They may damage the surface finish and/or impair the operation of the camera.

In the event of any problems with the operation of the camera, contact your Sony service representative.

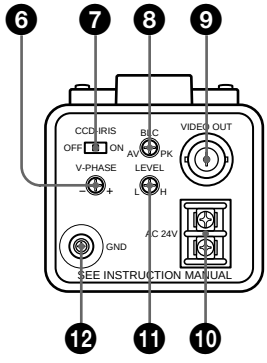
http://getMANUAL.com

A

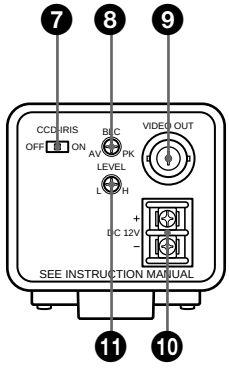


B

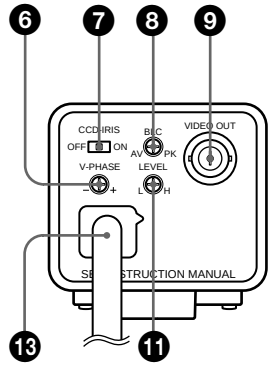
SPT-M124/SPT-M124CE



SPT-M122CE



SPT-M128CE



Location and Function of Parts

Top/Front/Side — Illustration A

❶ Focal length adjustment ring and locking screw
Use this ring to adjust the focal length (the distance between the lens mounting plane and the image plane).
Use the locking screw to lock the focal length.

❷ Tripod adapter
The tripod adapter can be attached to either the top or bottom of the camera using the three attached screws (1/4" UNC-20).
(At the factory, the tripod adapter is attached on the top of SPT-M124, while it is on the bottom of SPT-M122CE/M124CE/M128CE.)

❸ Auto iris lens selection switch (DC/VIDEO)
Switch for selecting the control signal for the auto iris lens.
DC: For auto iris lenses controlled by DC signals
VIDEO: For auto iris lenses controlled by video signals

Note

When the auto iris lens selection switch is set to VIDEO, "hunting" may occur. If this occurs, use the LEVEL L/H adjustment screw on the lens to change the incident light level. When adjusting the incident light level, set the ALC (Automatic Light Control) adjustment screw to Av.

❹ Lens connector (4 pin socket)
Supplies power and control signals to an auto iris lens.

❺ Lens mount
Use to mount an appropriate C-mount or a CS-mount lens. To attach a C-mount/CS-mount lens, turn the focal length adjustment ring to the appropriate position. The factory setting is CS mount.

Rear — B

❻ V-PHASE adjustment screw (SPT-M124/M124CE/M128CE)
Use to adjust the vertical phase of cameras synchronized by line lock.

❼ CCD-IRIS ON/OFF switch
When using a manual iris lens, set the CCD-IRIS switch to "ON" to automatically adjust the sensitivity according to the incident light conditions. When using an auto iris lens, set this switch to "OFF."

❽ BLC (Back Light Control) adjustment screw
Use to compensate for backlight conditions when using a manual iris lens (when CCD-IRIS ON/OFF switch is set to "ON") or a DC controlled auto iris lens.

Note

This screw cannot be used when a video signal controlled auto iris lens is mounted.

❾ VIDEO OUT connector (BNC-type)

❿ AC 24 V screw terminals (SPT-M124/M124CE)
Connect to an external power supply of AC 24 V.
DC 12 V screw terminals (SPT-M122CE)
Connect to an external power supply of DC 12 V.

⓫ LEVEL adjustment screw
Use to compensate for the video level when using a manual iris lens (when CCD-IRIS ON/OFF switch is set to "ON") or a DC controlled auto iris lens.

Note

This screw cannot be used when a video signal controlled auto iris lens is mounted.

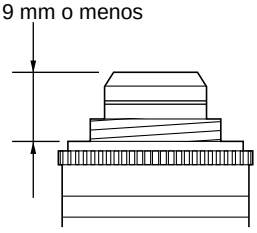
⓬ Ground terminal (screw type) (SPT-M124/M124CE)

⓭ Power cable (SPT-M128CE)
Connect to an AC power supply of 220 V to 240 V.

C

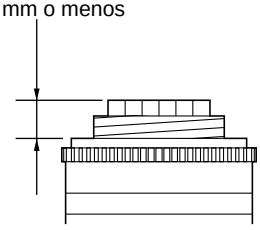
C-mount lens
Objectif à monture C
Objetivo para montura C

9 mm or less
9 mm ou moins
9 mm o menos

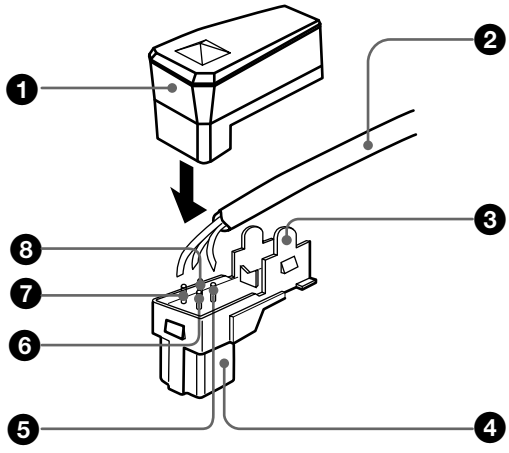


CS-mount lens
Objectif à monture CS
Objetivo para montura CS

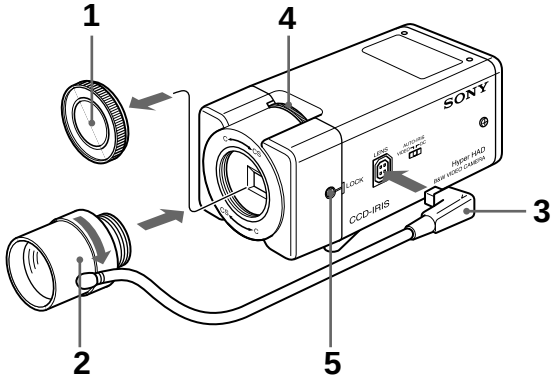
4 mm or less
4 mm ou moins
4 mm o menos



D



E



Installation

Suitable lenses C

The lens must be either a C- or a CS-mount type of less than 1 kg. The protrusion behind the mounting surface must be within the limits as shown in illustration C.

Changing the plug on an auto iris lens cable D

The camera is supplied with a LENS connector for inserting the power/control cable of an auto iris lens. Before connecting an auto iris lens, however, you first have to replace the lens cable plug with the one supplied with this camera. Replace as follows:

1 Detach the old plug from the lens cable.
2 Solder the wires to the pins of the new plug. (For cable pin assignment, refer to the instruction manual for the lens.)

❶	Cover		
❷	Lens cable (not supplied)		
❸	Rib (If the cable is thick, cut this off.)		
❹	Plug (unit accessory)		
❺	Pin 4	Video signal control	Ground
		DC control	DRV –
❻	Pin 2	Video signal control	Not used
		DC control	CONT +
❼	Pin 1	Video signal control	Power supply (DC 9 V/Max. 50 mA)
		DC control	CONT –
❽	Pin 3	Video signal control	Video signal (0.7 Vp-p)
		DC control	DRV +

Fitting the lens E

1 Unscrew the lens mount cap.
2 Screw in the lens, and turn it until it is secured.
3 Insert the lens plug in the LENS connector.
When fitting a manual-iris lens, omit step 3.
4 According to the type of lens, adjust the focal length by turning the focal length adjustment ring.
5 Tighten the locking screw.

Caution

Keep the lens mount cap on the camera when not attaching a lens.

Installing the camera

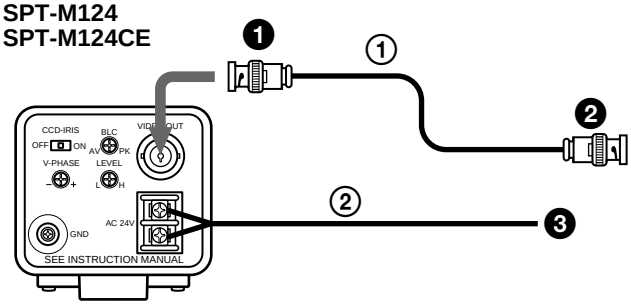
When attaching the camera to a ceiling bracket or tripod, attach the supplied tripod adapter. The adapter may be attached to either the top or bottom of the camera. Use the supplied 1/4'' UNC-20 screw to attach the camera to the tripod or ceiling bracket.

Cautions

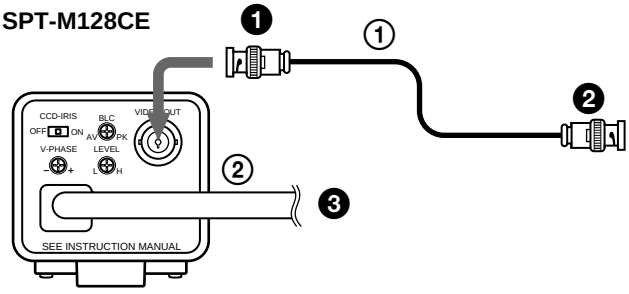
• Use tripod screws and securely tighten then with a driver.
• Install the tripod adapter on a flat surface.

F

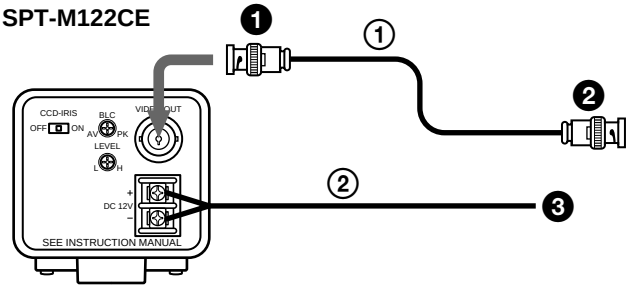
SPT-M124
SPT-M124CE



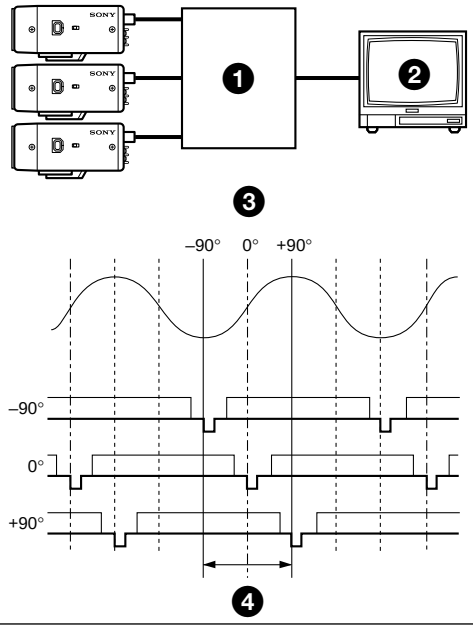
SPT-M128CE



SPT-M122CE



G



Connections F

❶ Connect with VIDEO OUT connector.
❷ Connect with VIDEO IN connector on a video monitor, etc.
❸ SPT-M124: to AC 24 V, 60 Hz
SPT-M124CE: to AC 24 V, 50 Hz
SPT-M128CE: to AC 220 – 240 V, 50 Hz
SPT-M122CE: to DC 12 V
① 75-ohm coaxial cable
② Power cable

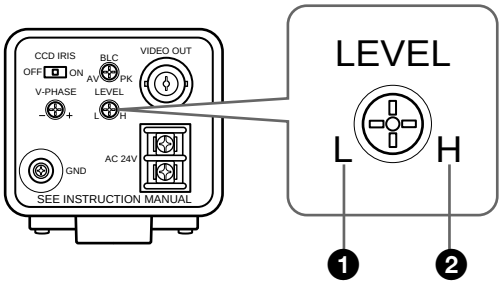
Phase Adjustment G

When using more than one camera, connect to a camera switcher and set the vertical phase range as follows:

❶ Camera switcher
❷ Monitor
❸ Vertical phase
❹ Adjustable range

H

I



Vertical phase H

The picture may roll vertically if the vertical phase is not set. To adjust the vertical phase, turn the V-PHASE adjustment screw at the back of the camera.

Adjusting the Incident Light Level I

Since the incident light level has been preset at the factory, usually no further adjustment is required.
If the picture is too dark, however, or if the picture's highlights are extremely overexposed, adjust the LEVEL adjustment screw with a screwdriver. This adjustment can only be used for manual iris lens (when CCD-IRIS ON/OFF switch is set to "ON") or DC controlled auto iris lens.

❶ Turn toward **L** (low) to make the picture darker.
❷ Turn toward **H** (high) to make the picture brighter.

Adjusting the Back Light Control

You can compensate for backlight conditions by turning the BLC (Back Light Control) adjustment screw. When using this unit under backlight conditions, turn the BLC adjustment screw towards AV. This adjustment can only be used for manual iris lens (when CCD-IRIS ON/OFF switch is set to "ON") or DC controlled auto iris lens.

CCD Characteristics

The following conditions may be observed when using a CCD camera are not due to any fault within the camera.

Vertical smear
This phenomenon occurs when viewing a very bright object.

Patterned noise
This is a fixed pattern which may appear over the entire monitor screen when the camera is operated a high temperature.

Jagged picture
When viewing stripes, straight lines, or similar patterns, the image on the screen may appear jagged.

Specifications

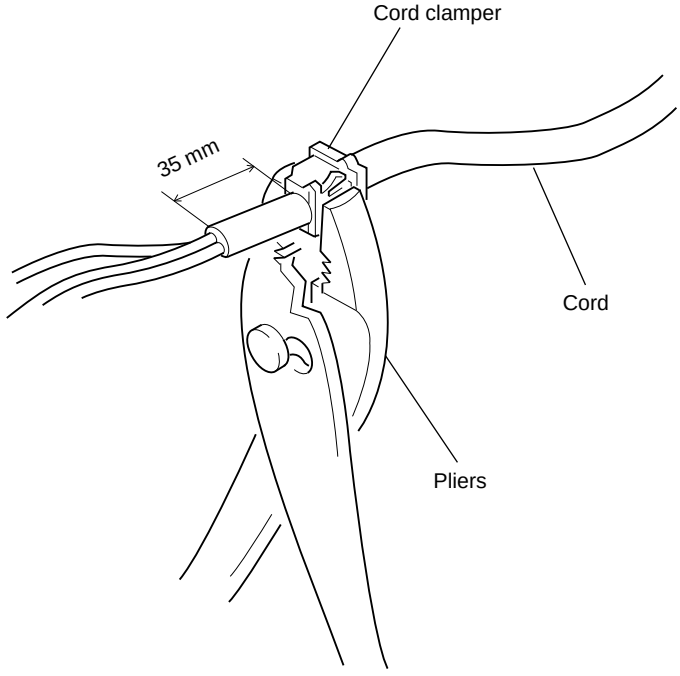
Image device	1/3" interline transfer type CCD
Picture elements	SPT-124 : 510 (horizontal) × 492 (vertical) SPT-M122CE/M124CE/M128CE : 500 (horizontal) x 582 (vertical)
Signal system	SPT-M124 : EIA standards SPT-M122CE/M124CE/M128CE : CCIR standards
Sync system	SPT-M124/M124CE/M128CE : AC line lock SPT-M122CE : internal
Horizontal resolution	380 lines
Minimum illumination	0.1 lux (F1.2)
S/N	45 dB (AGC off)
Video output	1 Vp-p, 75 ohm, negative sync
CCD iris	SPT-M124 : 1/60 to 1/100000 sec SPT-M122CE/M124CE/M128CE : 1/50 to 1/100000 sec
Automatic Gain Control	Always ON
Power requirements	SPT-M124 : AC 24 V, 60 Hz SPT-M124CE : AC 24 V, 50 Hz SPT-M128CE : AC 220-240 V, 50 Hz SPT-M122CE : DC 12 V
Power consumption	SPT-M124/M124CE : 2.5 W SPT-M128CE : 3.5 W SPT-M122CE : 0.2 A (DC 12 V)
Operating temperature	–10°C to +50°C (14°F to 122°F)
Operating humidity	20 to 80%
Storage temperature	–40°C to +60°C (–40°F to 140°F)
Storage humidity	20 to 80%
Shock resistance	70G
Mass	SPT-M124/M122CE/M124CE : 320 g (11 oz) SPT-M128CE : 750 g (1 lb 10 oz)
Dimensions (w/h/d)	SPT-M124/M122CE/M124CE : 57 × 50 × 115 mm (2 1/4 × 2 × 4 5/8 inches) SPT-M128CE : 57 × 50 × 165 mm (2 1/4 × 2 × 6 1/2 inches)
Supplied accessories	Lens mount cap (1) Lens connector (1) Operating Instructions (1)

Design and specifications are subject to change without notice.

SECTION 2
SERVICE INFORMATION

2-1. Replacement of Power Cord (SPT-M128CE only)

When replacing the power cord, use a new cord clamper and secure the clamper onto the cord with a pair of pliers first, and then attach the rear panel.



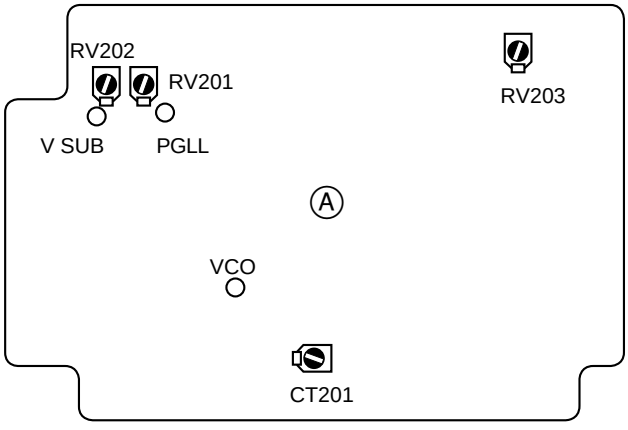
SECTION 3
ADJUSTMENT

Required Instrument :

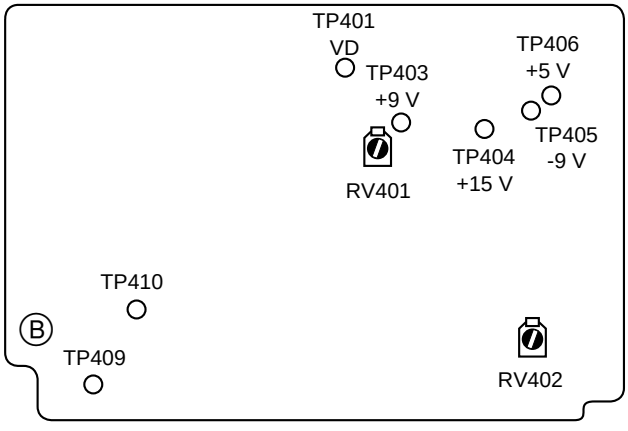
- Digital multimeter
- Oscilloscope
- Gray scale with white center (γ=1)
- Monitor TV

Power Supply : SPT-M122CE : 12V DC
SPT-M124 : 24V AC, 60Hz
SPT-M124CE : 24V AC, 50Hz
SPT-M128CE : 220 - 240V AC, 50Hz

– PR-241 Board –



– PS-524 Board –

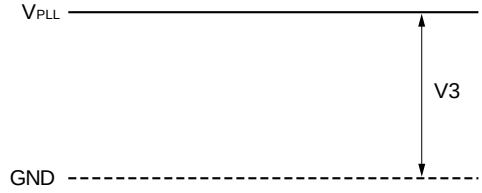


3-1. DC-DC CONVERTER ADJUSTMENT

1. Connect digital multimeter to TP406 (+5 V) on the PS-524 board (side B).
2. Adjust RV401 (SPT-M124/M124CE)/RV402 (SPT-M122/M128CE) so that the voltage is 5.0 ±0.1 V.
3. At this time, verify that TP403 (+9 V) is 9 ±0.3 V, TP405 (–9 V) is –9 ± 0.3 V and TP404 (+15 V) is 15 ±0.3 V.

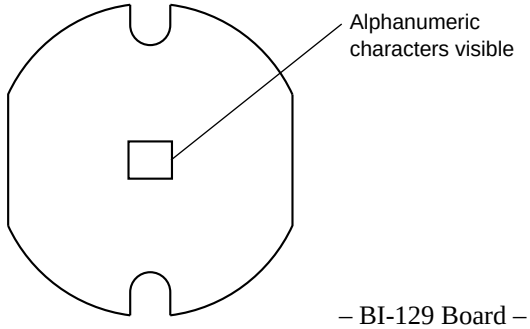
3-2. V_{PLL} ADJUSTMENT (for SPT-M124/ M124CE/M128CE)

1. Connect oscilloscope to test point VCO on the PR-241 board (side A).
2. Adjust CT201 so that V3 is at 2.9 ±0.2V.



3-3. V_{SUB} ADJUSTMENT

1. Take note of the alphanumeric characters visible in the square hole at back of BI-129 board.



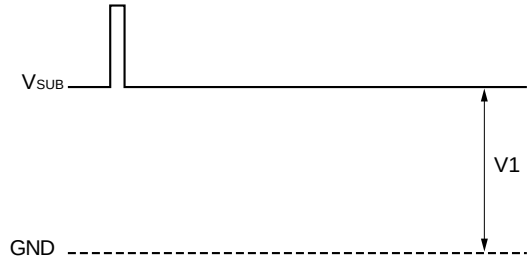
– BI-129 Board –

2. Connect oscilloscope to test point V_{SUB} on the PR-241 board (side A).
3. Adjust RV202 so that the value of V1 conforms to the corresponding value shown in the following voltage table.

Example : 3K

V_{SUB} code	E	f	G	h	J	K	L	m	N	P
Specified Value (V)	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5

V_{SUB} code	Q	R	S	T	U	V	W	X	Y	Z
Specified value (V)	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5

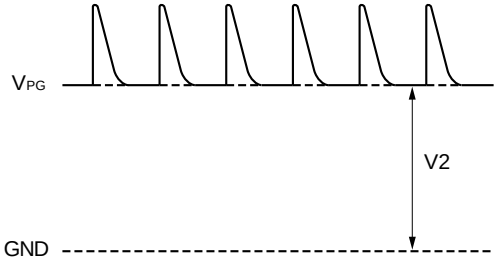


3-4. V_{PG} ADJUSTMENT

1. Connect oscilloscope to test point PGLL on the PR-241 board (side A).
2. Adjust RV201 so that the value of V2 conforms to the corresponding value shown in the following voltage table.

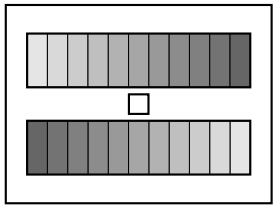
Example : 3K

V_{PG} code	1	2	3	4	5	6	7
Specified Value (V)	1.0	1.5	2.0	2.5	3.0	3.5	4.0



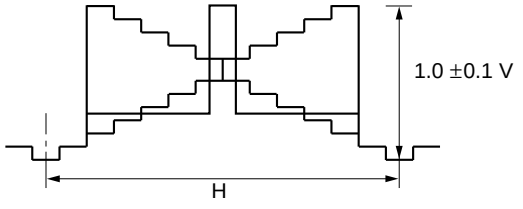
3-5. AGC ADJUSTMENT

1. Set gray scale ($\gamma = 1$) to the pattern box.



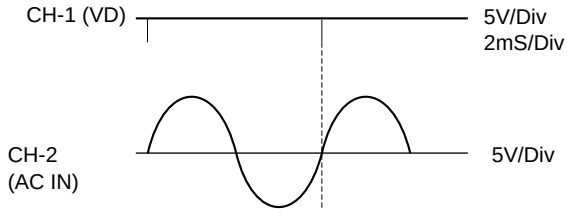
Gray scale pattern

2. Connect monitor TV and oscilloscope to VIDEO OUT of the set. Turn off the CCD IRIS switch and allow gray scale to be displayed on the full monitor TV screen. (Iris of lens : F = 16)
3. Adjust RV203 on the PR-241 board (side A) so that the waveform is within the voltage range of 1.0 ±0.1 V. The top of the staircase should not be crushed.



3-6. V_{PHASE} ADJUSTMENT (for SPT-M124/ M124CE/M128CE)

1. Connect CH-1 of oscilloscope to TP401 (VD) and (GND) on the PS-524 board (side B), and CH-2 to TP409 and TP410 (AC IN)
2. Adjust RV301 so that the CH-1 pulse is positioned at the zero cross point of the CH-2 (AC IN) waveform.



SECTION 4
SPARE PARTS

4-1. NOTES ON REPAIR PARTS

(1) Safety Related Components Warning

Components marked ⚠ are critical to safe operation.
Therefore, specified parts should be used in the case of replacement.

(2) Stadardization of Parts

Repair parts supplied from Sony Parts Center may not be always identical with the parts which actually in use due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts".
This manual's exploded views and electrical spare parts list are indicating the part numbers of "the standardized genuine parts at present".

(3) Stock of Parts

Parts marked with "o" SP (Supply Code) column of the spare parts list are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow for additional delivery time.

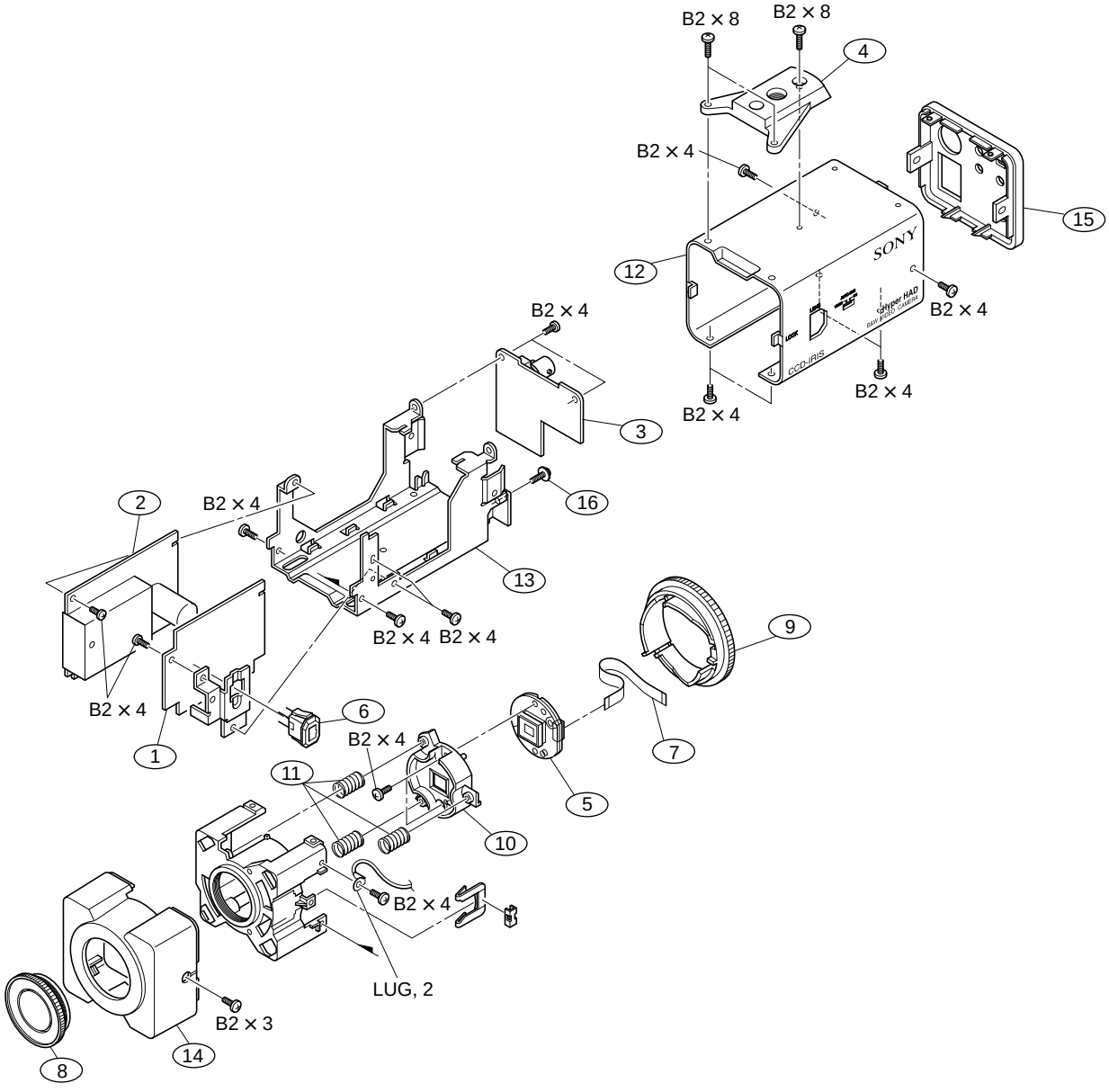
(4) Units for Capacitors, Inductors and Resistors

The following units are assumed in schematic diagrams, electical parts list and exploded views unless otherwise specified.

Capacitors : μF
Inductors : μH
Resistors : Ω

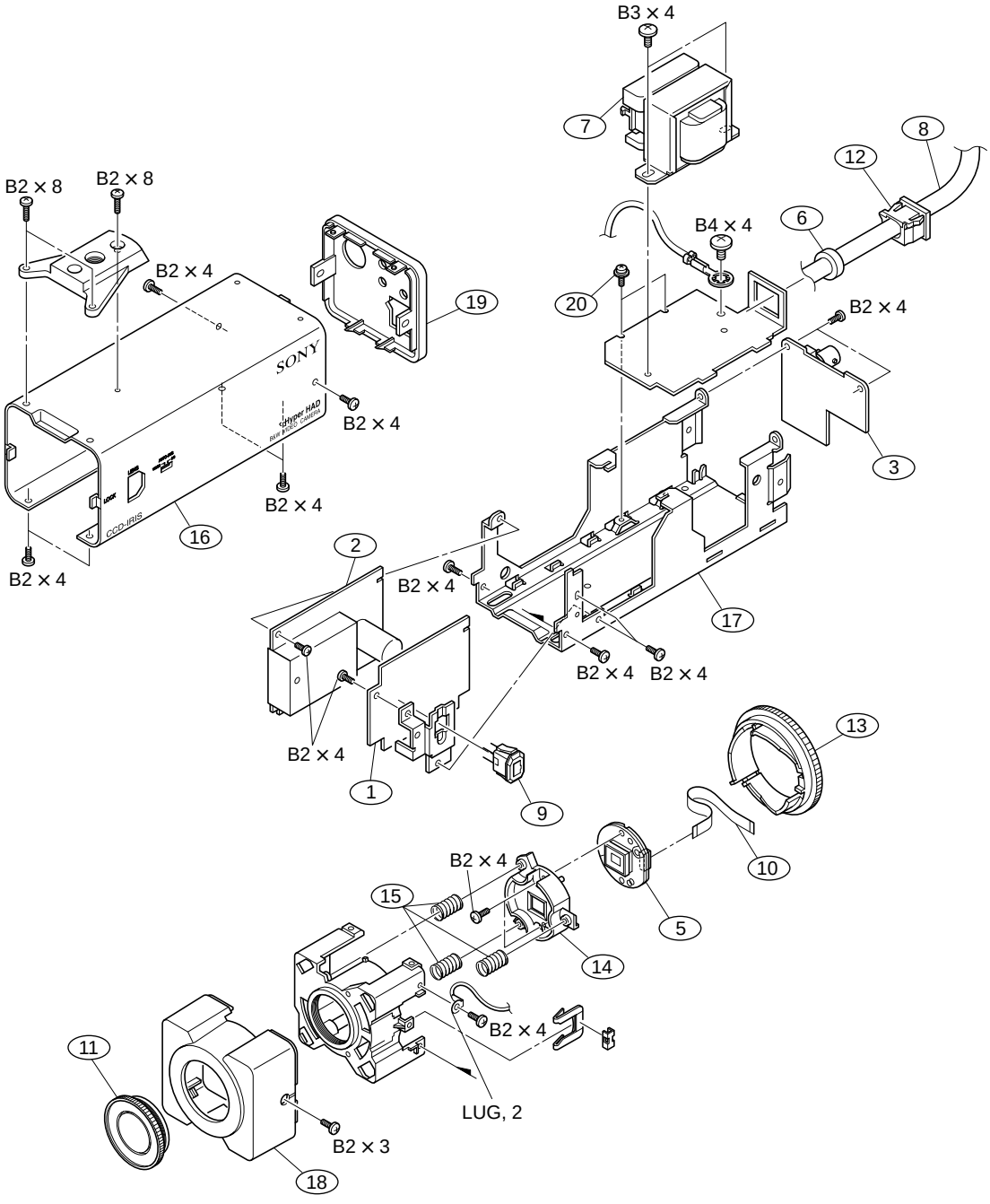
4-2. EXPLODED VIEW AND PARTS LIST

4-2-1. SPT-M122CE/M124/M124CE



No.	Part No.	SP	Description
1	A-8319-424-A	o	MOUNTED CIRCUIT BOARD, PR-241PD (for SPT-M122CE)
	A-8319-459-A	o	MOUNTED CIRCUIT BOARD, PR-241N (for SPT-M124)
	A-8319-469-A	o	MOUNTED CIRCUIT BOARD, PR-241P (for SPT-M124CE)
2	A-8319-426-A	o	MOUNTED CIRCUIT BOARD, PS-524-2 (for SPT-M122CE)
	A-8319-461-A	o	MOUNTED CIRCUIT BOARD, PS-524-4 (for SPT-M124/M124CE)
3	A-8319-428-A	o	MOUNTED CIRCUIT BOARD, CT-199-2 (for SPT-M122CE)
	A-8319-465-A	o	MOUNTED CIRCUIT BOARD, CT-199-4 (for SPT-M124/M124CE)
4	A-8319-453-A	s	ADAPTOR ASSY, TRIPOD
5	A-8319-533-A	s	BLOCK (N) ASSY, CCD (for SPT-M124)
	A-8319-534-A	s	BLOCK (P) ASSY, CCD (for SPT-M122CE/M124CE)
6	1-580-172-11	s	CONNECTOR,MICRO (RECEPTACLE)4P
7	1-777-087-11	o	CABLE, FLEXIBLE FLAT (13 CORE)
8	2-042-385-00	s	CAP, C MOUNT
9	3-614-391-01	s	RING
10	3-614-393-01	s	HOLDER,CCD
11	3-614-394-01	s	SPRING,COMPRESSION
12	3-614-397-01	o	CASE,UPPER
13	3-614-398-01	o	CASE,LOWER
14	3-614-404-01	o	PANEL,FRONT
15	3-614-405-01	o	PANEL,REAR (for SPT-M124/M124CE)
	3-614-405-11	o	PANEL,REAR (for SPT-M122CE)
16	3-679-362-01	s	SCREW (PWH) (2X4) (for SPT-M124/M124CE only)

4-2-2. SPT-M128CE



No.	Part No.	SP	Description
1	A-8319-415-A	o	MOUNTED CIRCUIT BOARD, PR-241P-8
2	A-8319-418-A	o	MOUNTED CIRCUIT BOARD, PS-524-8
3	A-8319-420-A	o	MOUNTED CIRCUIT BOARD, CT-199-8
4	A-8319-453-A	s	ADAPTOR ASSY, TRIPOD
5	A-8319-534-A	s	BLOCK (P) ASSY, CCD
6	1-239-231-11	s	FILTER, DATA LINE
7	⚠1-423-746-11	s	TRANSFORMER, POWER
8	⚠1-551-044-81	s	CORD, POWER (3 CORE)
9	1-580-172-11	s	CONNECTOR,MICRO (RECEPTACLE)4P
10	1-777-087-11	o	CABLE, FLEXIBLE FLAT (13 CORE)
11	2-042-385-00	s	CAP, C MOUNT
12	3-601-838-01	s	STOPPER,CODE
13	3-614-391-01	s	RING
14	3-614-393-01	s	HOLDER,CCD
15	3-614-394-01	s	SPRING,COMPRESSION
16	3-614-400-01	o	CASE,UPPER
17	3-614-401-01	o	CASE,LOWER
18	3-614-404-01	o	PANEL,FRONT
19	3-614-405-21	o	PANEL,REAR
20	3-730-141-01	s	SCREW (PSW) (2X4)

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4-3. ELECTRICAL PARTS LIST

BI-129 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	7-623-505-01	s	LUG, 2
C101	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C102	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C103	1-126-391-11	s	ELECT, CHIP 47uF 20% 6.3V
C104	1-126-401-11	s	ELECT, CHIP 1uF 20% 50V
C105	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
CN101	1-764-522-11	s	CONNECTOR, FFC/FPC (ZIF) 13P, MALE
L101	1-412-788-41	s	INDUCTOR 10UH
Q101	8-729-012-35	s	TRANSISTOR 2SK711-BL
R101	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R102	1-216-828-11	s	METAL, CHIP 3.9K 5% 1/16W
R103	1-216-848-11	s	METAL, CHIP 180K 5% 1/16W
R104	1-216-819-11	s	METAL, CHIP 680 5% 1/16W
R105	1-216-838-11	s	METAL, CHIP 27K 5% 1/16W
R106	1-216-797-11	s	METAL, CHIP 10 5% 1/16W

CT-199-2 BOARD(for SPT-M122CE)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8319-428-A	o	MOUNTED CIRCUIT BOARD, CT-199-2
1pc	7-685-533-19	s	SCREW +BTP 2.6X6 TYPE2 N-S
1pc	1-500-298-11	s	FERRITE 0UH
C301	1-216-296-91	s	SHORT 0
C302	1-163-059-00	s	CERAMIC 0.01uF 50V
CN303	1-694-455-11	s	TERMINAL BOARD, INPUT OUTPUT
D301	8-719-158-15	s	DIODE RD5.6SB-T1
D302	8-719-158-15	s	DIODE RD5.6SB-T1
D303	8-719-158-15	s	DIODE RD5.6SB-T1
D304	8-719-158-15	s	DIODE RD5.6SB-T1
JP301	1-216-296-91	s	SHORT 0
R301	1-216-840-11	s	METAL, CHIP 39K 5% 1/16W
R302	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
RV301	1-237-605-11	s	RES, ADJ, METAL GRAZE 10K
RV302	1-237-605-11	s	RES, ADJ, METAL GRAZE 10K
SW301	1-572-529-11	s	SWITCH, SLIDE

CT-199-4 BOARD(for SPT-M124/124CE)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8319-465-A	o	MOUNTED CIRCUIT BOARD, CT-199-4
1pc	7-685-533-19	s	SCREW +BTP 2.6X6 TYPE2 N-S
1pc	1-500-298-11	s	FERRITE 0UH
C301	1-165-379-11	s	CERAMIC 0.0022uF 10% 500V
C302	1-165-379-11	s	CERAMIC 0.0022uF 10% 500V
CN303	1-694-455-11	s	TERMINAL BOARD, INPUT OUTPUT
D301	8-719-158-15	s	DIODE RD5.6SB-T1
D302	8-719-158-15	s	DIODE RD5.6SB-T1
D303	8-719-158-15	s	DIODE RD5.6SB-T1
D304	8-719-158-15	s	DIODE RD5.6SB-T1
R301	1-216-840-11	s	METAL, CHIP 39K 5% 1/16W
R302	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
RV301	1-237-605-11	s	RES, ADJ, METAL GRAZE 10K
RV302	1-237-605-11	s	RES, ADJ, METAL GRAZE 10K
RV303	1-237-609-11	s	RES, ADJ, METAL GRAZE 220K
SW301	1-572-529-11	s	SWITCH, SLIDE

CT-199-8 BOARD(for SPT-M128CE)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8319-420-A	o	MOUNTED CIRCUIT BOARD, CT-199-8
1pc	7-685-533-19	s	SCREW +BTP 2.6X6 TYPE2 N-S
1pc	1-500-298-11	s	FERRITE 0UH
CN304	1-785-146-11	s	CONNECTOR, COAXIAL (BNC TYPE), MALE
D301	8-719-158-15	s	DIODE RD5.6SB-T1
D302	8-719-158-15	s	DIODE RD5.6SB-T1
D303	8-719-158-15	s	DIODE RD5.6SB-T1
D304	8-719-158-15	s	DIODE RD5.6SB-T1
R301	1-216-840-11	s	METAL, CHIP 39K 5% 1/16W
R302	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
RV301	1-237-605-11	s	RES, ADJ, METAL GRAZE 10K
RV302	1-237-605-11	s	RES, ADJ, METAL GRAZE 10K
RV303	1-237-609-11	s	RES, ADJ, METAL GRAZE 220K
SW301	1-572-529-11	s	SWITCH, SLIDE

PR-241PD BOARD(for SPT-M122CE)

Ref. No. or Q'ty	Part No.	SP	Description
C201	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C202	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C203	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C204	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C205	1-126-401-11	s	ELECT, CHIP 1uF 20% 50V
C206	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C207	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C208	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C209	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C210	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C211	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C212	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C213	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C214	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C219	1-164-237-11	s	CERAMIC 16PF 5% 50V
C220	1-164-237-11	s	CERAMIC 16PF 5% 50V
C221	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C222	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C223	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C224	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C227	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C228	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C229	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C230	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C231	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C232	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C234	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C235	1-115-156-11	s	CERAMIC 1uF 10V
C236	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C237	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C238	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C239	1-115-156-11	s	CERAMIC 1uF 10V
C240	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C241	1-162-917-11	s	CERAMIC, CHIP 15PF 5% 50V
C242	1-126-404-11	s	ELECT 4.7uF 20% 50V
C243	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C244	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C245	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C246	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C247	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C248	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C249	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C250	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C251	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C252	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C253	1-126-402-11	s	ELECT, CHIP 2.2uF 20% 50V
C254	1-126-402-11	s	ELECT, CHIP 2.2uF 20% 50V
C255	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C256	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C257	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C258	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C259	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C260	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C261	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C262	1-115-156-11	s	CERAMIC 1uF 10V
C263	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C264	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C265	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V

(PR-241PD BOARD(for SPT-M122CE))

Ref. No. or Q'ty	Part No.	SP	Description
C270	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C271	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C273	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
CN201	1-764-522-11	s	CONNECTOR, FFC/FPC (ZIF) 13P, MALE
CN202	1-691-591-11	s	CONNECTOR (1.5MM) (SMD)8P, MALE
CN203	1-764-177-11	o	CONNECTOR (SMD)(1.5MM) 7P, MALE
D201	8-719-404-49	s	DIODE MA111
D202	8-719-404-49	s	DIODE MA111
D203	8-719-404-49	s	DIODE MA111
D204	8-719-404-49	s	DIODE MA111
D205	8-719-404-49	s	DIODE MA111
D208	8-719-421-69	s	DIODE MA133
D209	8-719-158-36	s	DIODE RD9.1SB1-T1
D210	8-719-404-49	s	DIODE MA111
IC201	8-752-372-14	s	IC CXD1267AN
IC202	8-752-360-93	s	IC CXD2400R-T4
IC203	8-752-051-25	s	IC CXA1310AQ
IC205	8-759-998-98	s	IC LM358D
JP201	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
L201	1-412-030-11	s	INDUCTOR CHIP 22UH
L202	1-412-030-11	s	INDUCTOR CHIP 22UH
L203	1-412-030-11	s	INDUCTOR CHIP 22UH
L204	1-412-030-11	s	INDUCTOR CHIP 22UH
L206	1-412-030-11	s	INDUCTOR CHIP 22UH
L207	1-410-382-31	s	INDUCTOR, CHIP 12uH
L208	1-410-658-31	s	INDUCTOR, CHIP 220UH
L209	1-412-030-11	s	INDUCTOR CHIP 22UH
L210	1-469-092-11	o	FERRITE 0UH
L211	1-414-656-11	s	FERRITE 0UH
L212	1-414-656-11	s	FERRITE 0UH
L213	1-469-092-11	o	FERRITE 0UH
L214	1-414-656-11	s	FERRITE 0UH
L215	1-414-656-11	s	FERRITE 0UH
L216	1-469-092-11	o	FERRITE 0UH
L217	1-414-656-11	s	FERRITE 0UH
L218	1-414-656-11	s	FERRITE 0UH
L219	1-469-092-11	o	FERRITE 0UH
L220	1-414-656-11	s	FERRITE 0UH
L221	1-414-656-11	s	FERRITE 0UH
L222	1-414-656-11	s	FERRITE 0UH
L223	1-469-092-11	o	FERRITE 0UH
L224	1-414-656-11	s	FERRITE 0UH
L225	1-469-092-11	o	FERRITE 0UH
L226	1-414-656-11	s	FERRITE 0UH
L227	1-469-092-11	o	FERRITE 0UH
L228	1-414-656-11	s	FERRITE 0UH
L229	1-469-092-11	o	FERRITE 0UH
L230	1-414-656-11	s	FERRITE 0UH
L231	1-469-092-11	o	FERRITE 0UH
Q201	8-729-230-60	s	TRANSISTOR 2SA1586YG
Q202	8-729-230-63	s	TRANSISTOR 2SC4116YG
Q203	8-729-230-63	s	TRANSISTOR 2SC4116YG
Q204	8-729-230-60	s	TRANSISTOR 2SA1586YG
Q205	8-729-230-63	s	TRANSISTOR 2SC4116YG
Q206	8-729-106-68	s	TRANSISTOR 2SC1615A-GP
Q207	8-729-230-63	s	TRANSISTOR 2SC4116YG
Q208	8-729-230-60	s	TRANSISTOR 2SA1586YG

(PR-241PD BOARD(for SPT-M122CE))

Ref. No. or Q'ty	Part No.	SP	Description
Q209	8-729-028-97	s	TRANSISTOR DTC114TUA-T106
Q210	8-729-230-63	s	TRANSISTOR 2SC4116YG
R201	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R202	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R203	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R204	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R207	1-218-844-11	s	RESCHIP 750 0.50% 1/16W
R209	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R210	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R211	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R212	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R213	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R214	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R215	1-216-834-11	s	METAL, CHIP 12K 5% 1/16W
R216	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R217	1-216-823-11	s	METAL, CHIP 1.5K 5% 1/16W
R218	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R219	1-216-823-11	s	METAL, CHIP 1.5K 5% 1/16W
R220	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R221	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R222	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R223	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R224	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
R225	1-218-884-11	s	RESCHIP 36K 0.50% 1/16W
R226	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R227	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R228	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R229	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W
R230	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W
R231	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R232	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R233	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R234	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
R235	1-218-864-11	s	RESCHIP 5.1K 0.50% 1/16W
R236	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R237	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R238	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R239	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R240	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R241	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R242	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
R243	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R244	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R245	1-216-815-11	s	METAL, CHIP 330 5% 1/16W
R246	1-216-815-11	s	METAL, CHIP 330 5% 1/16W
R247	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R248	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R249	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R250	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R251	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R252	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R253	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R254	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R255	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R256	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R257	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R258	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R259	1-216-817-11	s	METAL, CHIP 470 5% 1/16W

(PR-241PD BOARD(for SPT-M122CE))

Ref. No. or Q'ty	Part No.	SP	Description
R260	1-216-835-11	s	METAL, CHIP 15K 5% 1/16W
R261	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
RV201	1-238-858-11	s	RES, ADJ, CERMET 47K
RV202	1-238-858-11	s	RES, ADJ, CERMET 47K
RV203	1-238-853-11	s	RES, ADJ, CERMET 1K
SW201	1-762-667-11	s	SWITCH, SLIDE
X201	1-760-025-11	s	CRYSTAL 18.935MHz

PR-241N BOARD(for SPT-M124)

Ref. No. or Q'ty	Part No.	SP	Description
C201	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C202	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C203	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C204	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C205	1-126-401-11	s	ELECT, CHIP 1uF 20% 50V
C206	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C207	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C208	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C209	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C210	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C211	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C212	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C213	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C214	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C215	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C216	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C217	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C218	1-162-908-11	s	CERAMIC, CHIP 3PF 50V
C219	1-162-920-11	s	CERAMIC, CHIP 27PF 5% 50V
C220	1-162-912-11	s	CERAMIC, CHIP 7PF 50V
C221	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C222	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C223	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C224	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C225	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C227	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C228	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C229	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C231	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C232	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C234	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C235	1-115-156-11	s	CERAMIC 1uF 10V
C236	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C237	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C238	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C239	1-115-156-11	s	CERAMIC 1uF 10V
C240	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C241	1-162-917-11	s	CERAMIC, CHIP 15PF 5% 50V
C242	1-126-404-11	s	ELECT 4.7uF 20% 50V
C243	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C244	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C245	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C246	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C247	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C248	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C249	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C250	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C251	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C252	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C253	1-126-402-11	s	ELECT, CHIP 2.2uF 20% 50V
C254	1-126-402-11	s	ELECT, CHIP 2.2uF 20% 50V
C255	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C256	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C257	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C258	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C259	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C260	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C261	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V

(PR-241N BOARD(for SPT-M124))

Ref. No. or Q'ty	Part No.	SP	Description
C262	1-115-156-11	s	CERAMIC 1uF 10V
C263	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C264	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C265	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C270	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C271	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C273	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
CN201	1-764-522-11	s	CONNECTOR, FFC/FPC (ZIF) 13P, MALE
CN202	1-691-591-11	s	CONNECTOR (1.5MM) (SMD)8P, MALE
CN203	1-764-177-11	o	CONNECTOR (SMD)(1.5MM) 7P, MALE
CT201	1-141-322-11	s	CAP, CHIP TYPE TRIMMER 20PF
D201	8-719-404-49	s	DIODE MA111
D202	8-719-404-49	s	DIODE MA111
D203	8-719-404-49	s	DIODE MA111
D204	8-719-404-49	s	DIODE MA111
D205	8-719-404-49	s	DIODE MA111
D206	8-719-002-81	s	DIODE 1T363A-M20-T8A
D207	8-719-002-81	s	DIODE 1T363A-M20-T8A
D208	8-719-421-69	s	DIODE MA133
D209	8-719-158-36	s	DIODE RD9.1SB1-T1
D210	8-719-404-49	s	DIODE MA111
IC201	8-752-372-14	s	IC CXD1267AN
IC202	8-752-360-93	s	IC CXD2400R-T4
IC203	8-752-051-25	s	IC CXA1310AQ
IC204	8-759-031-84	s	IC TC7S04F
IC205	8-759-998-98	s	IC LM358D
L201	1-412-030-11	s	INDUCTOR CHIP 22UH
L202	1-412-030-11	s	INDUCTOR CHIP 22UH
L203	1-412-030-11	s	INDUCTOR CHIP 22UH
L204	1-412-030-11	s	INDUCTOR CHIP 22UH
L205	1-410-373-31	s	INDUCTOR CHIP 2.2UH
L206	1-412-030-11	s	INDUCTOR CHIP 22UH
L207	1-410-382-31	s	INDUCTOR, CHIP 12uH
L208	1-410-658-31	s	INDUCTOR, CHIP 220UH
L209	1-412-030-11	s	INDUCTOR CHIP 22UH
L210	1-469-092-11	o	FERRITE 0UH
L211	1-414-656-11	s	FERRITE 0UH
L212	1-414-656-11	s	FERRITE 0UH
L213	1-469-092-11	o	FERRITE 0UH
L214	1-414-656-11	s	FERRITE 0UH
L215	1-414-656-11	s	FERRITE 0UH
L216	1-469-092-11	o	FERRITE 0UH
L217	1-414-656-11	s	FERRITE 0UH
L218	1-414-656-11	s	FERRITE 0UH
L219	1-469-092-11	o	FERRITE 0UH
L220	1-414-656-11	s	FERRITE 0UH
L221	1-414-656-11	s	FERRITE 0UH
L222	1-414-656-11	s	FERRITE 0UH
L223	1-469-092-11	o	FERRITE 0UH
L224	1-414-656-11	s	FERRITE 0UH
L225	1-469-092-11	o	FERRITE 0UH
L226	1-414-656-11	s	FERRITE 0UH
L227	1-469-092-11	o	FERRITE 0UH
L228	1-414-656-11	s	FERRITE 0UH
L229	1-469-092-11	o	FERRITE 0UH
L230	1-414-656-11	s	FERRITE 0UH
L231	1-469-092-11	o	FERRITE 0UH

(PR-241N BOARD(for SPT-M124))

Ref. No. or Q'ty	Part No.	SP	Description
Q201	8-729-230-60	s	TRANSISTOR 2SA1586YG
Q202	8-729-230-63	s	TRANSISTOR 2SC4116YG
Q203	8-729-230-63	s	TRANSISTOR 2SC4116YG
Q204	8-729-230-60	s	TRANSISTOR 2SA1586YG
Q205	8-729-230-63	s	TRANSISTOR 2SC4116YG
Q206	8-729-106-68	s	TRANSISTOR 2SC1615A-GP
Q207	8-729-230-63	s	TRANSISTOR 2SC4116YG
Q208	8-729-230-60	s	TRANSISTOR 2SA1586YG
Q209	8-729-028-97	s	TRANSISTOR DTC114TUA-T106
Q210	8-729-230-63	s	TRANSISTOR 2SC4116YG
R201	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R202	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R203	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R204	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R205	1-216-843-11	s	METAL, CHIP 68K 5% 1/16W
R206	1-216-843-11	s	METAL, CHIP 68K 5% 1/16W
R207	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R208	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R209	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R210	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R211	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R212	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R213	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R214	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R215	1-216-834-11	s	METAL, CHIP 12K 5% 1/16W
R216	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R217	1-216-823-11	s	METAL, CHIP 1.5K 5% 1/16W
R218	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R219	1-216-823-11	s	METAL, CHIP 1.5K 5% 1/16W
R220	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R221	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R222	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R223	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R224	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
R225	1-218-884-11	s	RESCHIP 36K 0.50% 1/16W
R226	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R227	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R228	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R229	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W
R230	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W
R231	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R232	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R233	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R234	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
R235	1-218-864-11	s	RESCHIP 5.1K 0.50% 1/16W
R236	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R237	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R238	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R239	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R240	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R241	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R242	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
R243	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R244	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R245	1-216-815-11	s	METAL, CHIP 330 5% 1/16W
R246	1-216-815-11	s	METAL, CHIP 330 5% 1/16W
R247	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R248	1-216-817-11	s	METAL, CHIP 470 5% 1/16W

(PR-241N BOARD(for SPT-M124))

Ref. No. or Q'ty	Part No.	SP	Description
R249	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R250	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R251	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R252	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R253	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R254	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R255	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R256	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R257	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R258	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R259	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R260	1-216-835-11	s	METAL, CHIP 15K 5% 1/16W
R261	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
RV201	1-238-858-11	s	RES, ADJ, CERMET 47K
RV202	1-238-858-11	s	RES, ADJ, CERMET 47K
RV203	1-238-853-11	s	RES, ADJ, CERMET 1K
SW201	1-762-667-11	s	SWITCH, SLIDE

PR-241P BOARD(for SPT-M124CE)

Ref. No. or Q'ty	Part No.	SP	Description
C201	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C202	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C203	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C204	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C205	1-126-401-11	s	ELECT, CHIP 1uF 20% 50V
C206	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C207	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C208	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C209	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C210	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C211	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C212	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C213	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C214	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C215	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C216	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C217	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C218	1-162-908-11	s	CERAMIC, CHIP 3PF 50V
C219	1-162-920-11	s	CERAMIC, CHIP 27PF 5% 50V
C220	1-162-912-11	s	CERAMIC, CHIP 7PF 50V
C221	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C222	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C223	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C224	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C225	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C227	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C228	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C229	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C230	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C231	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C232	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C234	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C235	1-115-156-11	s	CERAMIC 1uF 10V
C236	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C237	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C238	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C239	1-115-156-11	s	CERAMIC 1uF 10V
C240	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C241	1-162-917-11	s	CERAMIC, CHIP 15PF 5% 50V
C242	1-126-404-11	s	ELECT 4.7uF 20% 50V
C243	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C244	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C245	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C246	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C247	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C248	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C249	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C250	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C251	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C252	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C253	1-126-402-11	s	ELECT, CHIP 2.2uF 20% 50V
C254	1-126-402-11	s	ELECT, CHIP 2.2uF 20% 50V
C255	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C256	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C257	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C258	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C259	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C260	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V

(PR-241P BOARD(for SPT-M124CE))

Ref. No. or Q'ty	Part No.	SP	Description
C261	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C262	1-115-156-11	s	CERAMIC 1uF 10V
C263	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C264	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C265	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C270	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C271	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C273	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
CN201	1-764-522-11	s	CONNECTOR, FFC/FPC (ZIF) 13P, MALE
CN202	1-691-591-11	s	CONNECTOR (1.5MM) (SMD)8P, MALE
CN203	1-764-177-11	o	CONNECTOR (SMD)(1.5MM) 7P, MALE
CT201	1-141-322-11	s	CAP, CHIP TYPE TRIMMER 20PF
D201	8-719-404-49	s	DIODE MA111
D202	8-719-404-49	s	DIODE MA111
D203	8-719-404-49	s	DIODE MA111
D204	8-719-404-49	s	DIODE MA111
D205	8-719-404-49	s	DIODE MA111
D206	8-719-002-81	s	DIODE 1T363A-M20-T8A
D207	8-719-002-81	s	DIODE 1T363A-M20-T8A
D208	8-719-421-69	s	DIODE MA133
D209	8-719-158-36	s	DIODE RD9.1SB1-T1
D210	8-719-404-49	s	DIODE MA111
IC201	8-752-372-14	s	IC CXD1267AN
IC202	8-752-360-93	s	IC CXD2400R-T4
IC203	8-752-051-25	s	IC CXA1310AQ
IC204	8-759-031-84	s	IC TC7S04F
IC205	8-759-998-98	s	IC LM358D
JP201	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
L201	1-412-030-11	s	INDUCTOR CHIP 22UH
L202	1-412-030-11	s	INDUCTOR CHIP 22UH
L203	1-412-030-11	s	INDUCTOR CHIP 22UH
L204	1-412-030-11	s	INDUCTOR CHIP 22UH
L205	1-410-373-31	s	INDUCTOR CHIP 2.2UH
L206	1-412-030-11	s	INDUCTOR CHIP 22UH
L207	1-410-382-31	s	INDUCTOR, CHIP 12uH
L208	1-410-658-31	s	INDUCTOR, CHIP 220UH
L209	1-412-030-11	s	INDUCTOR CHIP 22UH
L210	1-469-092-11	o	FERRITE 0UH
L211	1-414-656-11	s	FERRITE 0UH
L212	1-414-656-11	s	FERRITE 0UH
L213	1-469-092-11	o	FERRITE 0UH
L214	1-414-656-11	s	FERRITE 0UH
L215	1-414-656-11	s	FERRITE 0UH
L216	1-469-092-11	o	FERRITE 0UH
L217	1-414-656-11	s	FERRITE 0UH
L218	1-414-656-11	s	FERRITE 0UH
L219	1-469-092-11	o	FERRITE 0UH
L220	1-414-656-11	s	FERRITE 0UH
L221	1-414-656-11	s	FERRITE 0UH
L222	1-414-656-11	s	FERRITE 0UH
L223	1-469-092-11	o	FERRITE 0UH
L224	1-414-656-11	s	FERRITE 0UH
L225	1-469-092-11	o	FERRITE 0UH
L226	1-414-656-11	s	FERRITE 0UH
L227	1-469-092-11	o	FERRITE 0UH
L228	1-414-656-11	s	FERRITE 0UH
L229	1-469-092-11	o	FERRITE 0UH

(PR-241P BOARD(for SPT-M124CE))

Ref. No. or Q'ty	Part No.	SP	Description
L230	1-414-656-11	s	FERRITE 0UH
L231	1-469-092-11	o	FERRITE 0UH
Q201	8-729-230-60	s	TRANSISTOR 2SA1586YG
Q202	8-729-230-63	s	TRANSISTOR 2SC4116YG
Q203	8-729-230-63	s	TRANSISTOR 2SC4116YG
Q204	8-729-230-60	s	TRANSISTOR 2SA1586YG
Q205	8-729-230-63	s	TRANSISTOR 2SC4116YG
Q206	8-729-106-68	s	TRANSISTOR 2SC1615A-GP
Q207	8-729-230-63	s	TRANSISTOR 2SC4116YG
Q208	8-729-230-60	s	TRANSISTOR 2SA1586YG
Q209	8-729-028-97	s	TRANSISTOR DTC114TUA-T106
Q210	8-729-230-63	s	TRANSISTOR 2SC4116YG
R201	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R202	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R203	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R204	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R205	1-216-843-11	s	METAL, CHIP 68K 5% 1/16W
R206	1-216-843-11	s	METAL, CHIP 68K 5% 1/16W
R207	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R208	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R209	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R210	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R211	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R212	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R213	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R214	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R215	1-216-834-11	s	METAL, CHIP 12K 5% 1/16W
R216	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R217	1-216-823-11	s	METAL, CHIP 1.5K 5% 1/16W
R218	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R219	1-216-823-11	s	METAL, CHIP 1.5K 5% 1/16W
R220	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R221	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R222	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R223	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R224	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
R225	1-218-884-11	s	RESCHIP 36K 0.50% 1/16W
R226	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R227	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R228	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R229	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W
R230	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W
R231	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R232	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R233	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R234	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
R235	1-218-864-11	s	RESCHIP 5.1K 0.50% 1/16W
R236	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R237	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R238	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R239	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R240	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R241	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R242	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
R243	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R244	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R245	1-216-815-11	s	METAL, CHIP 330 5% 1/16W
R246	1-216-815-11	s	METAL, CHIP 330 5% 1/16W

(PR-241P BOARD(for SPT-M124CE))

Ref. No. or Q'ty	Part No.	SP	Description
R247	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R248	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R249	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R250	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R251	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R252	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R253	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R254	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R255	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R256	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R257	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R258	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R259	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R260	1-216-835-11	s	METAL, CHIP 15K 5% 1/16W
R261	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
RV201	1-238-858-11	s	RES, ADJ, CERMET 47K
RV202	1-238-858-11	s	RES, ADJ, CERMET 47K
RV203	1-238-853-11	s	RES, ADJ, CERMET 1K
SW201	1-762-667-11	s	SWITCH, SLIDE

PR-241P-8 BOARD(for SPT-M128CE)

Ref. No. or Q'ty	Part No.	SP	Description
C201	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C202	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C203	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C204	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C205	1-126-401-11	s	ELECT, CHIP 1uF 20% 50V
C206	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C207	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C208	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C209	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C210	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C211	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C212	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C213	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C214	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C215	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C216	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C217	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C218	1-162-908-11	s	CERAMIC, CHIP 3PF 50V
C219	1-162-920-11	s	CERAMIC, CHIP 27PF 5% 50V
C220	1-162-912-11	s	CERAMIC, CHIP 7PF 50V
C221	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C222	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C223	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C224	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C225	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C227	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C228	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C229	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C230	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C231	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C232	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C234	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C235	1-115-156-11	s	CERAMIC 1uF 10V
C236	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C237	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C238	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C239	1-115-156-11	s	CERAMIC 1uF 10V
C240	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C241	1-162-917-11	s	CERAMIC, CHIP 15PF 5% 50V
C242	1-126-404-11	s	ELECT 4.7uF 20% 50V
C243	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C244	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C245	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C246	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C247	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C248	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C249	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C250	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C251	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C252	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C253	1-126-402-11	s	ELECT, CHIP 2.2uF 20% 50V
C254	1-126-402-11	s	ELECT, CHIP 2.2uF 20% 50V
C255	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C256	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C257	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C258	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C259	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C260	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V

(PR-241P-8 BOARD(for SPT-M128CE))

Ref. No. or Q'ty	Part No.	SP	Description
C261	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C262	1-115-156-11	s	CERAMIC 1uF 10V
C263	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C264	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C265	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C270	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C271	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C273	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
CN201	1-764-522-11	s	CONNECTOR, FFC/FPC (ZIF) 13P, MALE
CN202	1-691-591-11	s	CONNECTOR (1.5MM) (SMD)8P, MALE
CN203	1-764-177-11	o	CONNECTOR (SMD)(1.5MM) 7P, MALE
CT201	1-141-322-11	s	CAP, CHIP TYPE TRIMMER 20PF
D201	8-719-404-49	s	DIODE MA111
D202	8-719-404-49	s	DIODE MA111
D203	8-719-404-49	s	DIODE MA111
D204	8-719-404-49	s	DIODE MA111
D205	8-719-404-49	s	DIODE MA111
D206	8-719-002-81	s	DIODE 1T363A-M20-T8A
D207	8-719-002-81	s	DIODE 1T363A-M20-T8A
D208	8-719-421-69	s	DIODE MA133
D209	8-719-158-36	s	DIODE RD9.1SB1-T1
D210	8-719-404-49	s	DIODE MA111
IC201	8-752-372-14	s	IC CXD1267AN
IC202	8-752-360-93	s	IC CXD2400R-T4
IC203	8-752-051-25	s	IC CXA1310AQ
IC204	8-759-031-84	s	IC TC7S04F
IC205	8-759-998-98	s	IC LM358D
JP201	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
L201	1-412-030-11	s	INDUCTOR CHIP 22UH
L202	1-412-030-11	s	INDUCTOR CHIP 22UH
L203	1-412-030-11	s	INDUCTOR CHIP 22UH
L204	1-412-030-11	s	INDUCTOR CHIP 22UH
L205	1-410-373-31	s	INDUCTOR CHIP 2.2UH
L206	1-412-030-11	s	INDUCTOR CHIP 22UH
L207	1-410-382-31	s	INDUCTOR, CHIP 12uH
L208	1-410-658-31	s	INDUCTOR, CHIP 220UH
L209	1-412-030-11	s	INDUCTOR CHIP 22UH
L210	1-469-092-11	o	FERRITE 0UH
L211	1-414-656-11	s	FERRITE 0UH
L212	1-414-656-11	s	FERRITE 0UH
L213	1-469-092-11	o	FERRITE 0UH
L214	1-414-656-11	s	FERRITE 0UH
L215	1-414-656-11	s	FERRITE 0UH
L216	1-469-092-11	o	FERRITE 0UH
L217	1-414-656-11	s	FERRITE 0UH
L218	1-414-656-11	s	FERRITE 0UH
L219	1-469-092-11	o	FERRITE 0UH
L220	1-414-656-11	s	FERRITE 0UH
L221	1-414-656-11	s	FERRITE 0UH
L222	1-414-656-11	s	FERRITE 0UH
L223	1-469-092-11	o	FERRITE 0UH
L224	1-414-656-11	s	FERRITE 0UH
L225	1-469-092-11	o	FERRITE 0UH
L226	1-414-656-11	s	FERRITE 0UH
L227	1-469-092-11	o	FERRITE 0UH
L228	1-414-656-11	s	FERRITE 0UH
L229	1-469-092-11	o	FERRITE 0UH

(PR-241P-8 BOARD(for SPT-M128CE))

Ref. No. or Q'ty	Part No.	SP	Description
L230	1-414-656-11	s	FERRITE 0UH
L231	1-469-092-11	o	FERRITE 0UH
Q201	8-729-230-60	s	TRANSISTOR 2SA1586YG
Q202	8-729-230-63	s	TRANSISTOR 2SC4116YG
Q203	8-729-230-63	s	TRANSISTOR 2SC4116YG
Q204	8-729-230-60	s	TRANSISTOR 2SA1586YG
Q205	8-729-230-63	s	TRANSISTOR 2SC4116YG
Q206	8-729-106-68	s	TRANSISTOR 2SC1615A-GP
Q207	8-729-230-63	s	TRANSISTOR 2SC4116YG
Q208	8-729-230-60	s	TRANSISTOR 2SA1586YG
Q209	8-729-028-97	s	TRANSISTOR DTC114TUA-T106
Q210	8-729-230-63	s	TRANSISTOR 2SC4116YG
R201	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R202	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R203	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R204	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R205	1-216-843-11	s	METAL, CHIP 68K 5% 1/16W
R206	1-216-843-11	s	METAL, CHIP 68K 5% 1/16W
R207	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R208	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R209	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R210	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R211	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R212	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R213	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R214	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R215	1-216-834-11	s	METAL, CHIP 12K 5% 1/16W
R216	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R217	1-216-823-11	s	METAL, CHIP 1.5K 5% 1/16W
R218	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R219	1-216-823-11	s	METAL, CHIP 1.5K 5% 1/16W
R220	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R221	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R222	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R223	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R224	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
R225	1-218-884-11	s	RESCHIP 36K 0.50% 1/16W
R226	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R227	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R228	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R229	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W
R230	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W
R231	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R232	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R233	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R234	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
R235	1-218-864-11	s	RESCHIP 5.1K 0.50% 1/16W
R236	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R237	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R238	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R239	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R240	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R241	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R242	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
R243	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R244	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R245	1-216-815-11	s	METAL, CHIP 330 5% 1/16W
R246	1-216-815-11	s	METAL, CHIP 330 5% 1/16W

(PR-241P-8 BOARD(for SPT-M128CE))

Ref. No. or Q'ty	Part No.	SP	Description
R247	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R248	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R249	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R250	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R251	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R252	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R253	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R254	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R255	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R256	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R257	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R258	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R259	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R260	1-216-835-11	s	METAL, CHIP 15K 5% 1/16W
R262	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
RV201	1-238-858-11	s	RES, ADJ, CERMET 47K
RV202	1-238-858-11	s	RES, ADJ, CERMET 47K
RV203	1-238-853-11	s	RES, ADJ, CERMET 1K
SW201	1-762-667-11	s	SWITCH, SLIDE

PS-524-2 BOARD(for SPT-M122CE)

Ref. No. or Q'ty	Part No.	SP	Description
C401	1-162-968-11	s	CERAMIC, CHIP 0.0047uF 10% 50V
C402	1-115-783-11	s	ELECT 220uF 20% 25V
C403	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C405	1-107-826-11	s	CERAMIC 0.1uF 10% 16V
C406	1-107-826-11	s	CERAMIC 0.1uF 10% 16V
C407	1-162-974-11	s	CERAMIC, CHIP 0.01uF 50V
C408	1-107-826-11	s	CERAMIC 0.1uF 10% 16V
C409	1-127-554-11	s	ELECT 3.3uF 20% 25V
C410	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C411	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C412	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C413	1-127-558-11	s	ALUMN SOLID 10uF 20% 10V
C414	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C415	1-127-511-11	s	ELECT 6.8uF 20% 25V
C416	1-162-974-11	s	CERAMIC, CHIP 0.01uF 50V
C417	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C418	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C419	1-126-393-11	s	ELECT, CHIP 33uF 20% 10V
C420	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C421	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C422	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C423	1-126-399-11	s	ELECT, CHIP 10uF 20% 35V
C424	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C425	1-126-399-11	s	ELECT, CHIP 10uF 20% 35V
C426	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
CN401	1-573-290-21	s	CONNECTOR (1.5MM) (SMD)4P, MALE
CN403	1-691-591-11	s	CONNECTOR (1.5MM) (SMD)8P, MALE
D401	8-719-510-11	s	DIODE D1FS4
D403	8-719-158-15	s	DIODE RD5.6SB-T1
D404	8-719-016-74	s	DIODE 1SS352-TPH3
D408	8-719-069-33	s	DIODE SFPB-69V
D409	8-719-987-21	s	DIODE SB02-09CP-TB
D410	8-719-510-11	s	DIODE D1FS4
D411	8-719-400-20	s	DIODE MA152WA
D412	8-719-158-36	s	DIODE RD9.1SB1-T1
F401	⚠ 1-532-777-21	s	FUSE 1.25A 125V
IC401	8-759-521-35	s	IC TL5001CD
IC402	8-759-169-49	s	IC TA78L15F-TE12L
IC403	8-759-245-47	s	IC TA78L09F-T1
JP401	1-216-296-91	s	SHORT 0
JP402	1-216-295-91	s	RES, CHIP 0
L402	1-412-028-11	s	INDUCTOR CHIP 4.7UH
L403	1-412-788-41	s	INDUCTOR 10UH
L404	1-412-788-41	s	INDUCTOR 10UH
L405	1-412-032-11	s	INDUCTOR CHIP 100UH
L406	1-412-788-41	s	INDUCTOR 10UH
Q401	8-729-014-12	s	TRANSISTOR RN1311-TE85L
Q402	8-729-230-49	s	TRANSISTOR 2SC2712-YG
Q403	8-729-044-35	s	TRANSISTOR 2SB1216S-TL
R401	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R403	1-216-839-11	s	METAL, CHIP 33K 5% 1/16W
R404	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R406	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R407	1-216-849-11	s	METAL, CHIP 220K 5% 1/16W
R408	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W

(PS-524-2 BOARD(for SPT-M122CE))

Ref. No. or Q'ty	Part No.	SP	Description
R409	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R410	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R411	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R416	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R418	1-216-824-11	s	METAL, CHIP 1.8K 5% 1/16W
R419	1-216-295-91	s	RES, CHIP 0
R420	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R421	1-216-818-11	s	METAL, CHIP 560 5% 1/16W
RV402	1-238-853-11	s	RES, ADJ, CERMET 1K
T401	1-431-984-11	s	TRANSFORMER, CONVERTER

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PS-524-4 BOARD(for SPT-M124/M124CE)

Ref. No. or Q'ty	Part No.	SP	Description
C401	1-162-968-11	s	CERAMIC, CHIP 0.0047uF 10% 50V
C402	1-115-837-11	s	ELECT 470uF 20% 50V
C403	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C404	1-115-349-51	s	CERAMIC 0.01uF 2KV
C405	1-107-826-11	s	CERAMIC 0.1uF 10% 16V
C406	1-107-826-11	s	CERAMIC 0.1uF 10% 16V
C407	1-162-974-11	s	CERAMIC, CHIP 0.01uF 50V
C408	1-107-826-11	s	CERAMIC 0.1uF 10% 16V
C409	1-127-554-11	s	ELECT 3.3uF 20% 25V
C410	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C411	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C412	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C413	1-127-558-11	s	ALUMN SOLID 10uF 20% 10V
C414	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C415	1-127-511-11	s	ELECT 6.8uF 20% 25V
C416	1-162-974-11	s	CERAMIC, CHIP 0.01uF 50V
C417	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C418	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C419	1-126-393-11	s	ELECT, CHIP 33uF 20% 10V
C420	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C421	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C422	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C423	1-126-399-11	s	ELECT, CHIP 10uF 20% 35V
C424	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C425	1-126-399-11	s	ELECT, CHIP 10uF 20% 35V
C426	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C427	1-101-821-00	s	CERAMIC 2200PF 500V
C428	1-101-821-00	s	CERAMIC 2200PF 500V
C429	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C430	1-107-826-11	s	CERAMIC 0.1uF 10% 16V
C431	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C432	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C433	1-126-603-11	s	ELECT 4.7uF 20% 35V
C434	1-128-595-11	s	ELECT 2.2uF 20% 50V
C435	1-126-391-11	s	ELECT, CHIP 47uF 20% 6.3V
CN401	1-573-290-21	s	CONNECTOR (1.5MM) (SMD)4P, MALE
CN403	1-691-591-11	s	CONNECTOR (1.5MM) (SMD)8P, MALE
D402	8-719-050-65	s	DIODE S1ZB60-TL
D403	8-719-037-41	s	DIODE RD20SB-T1
D404	8-719-016-74	s	DIODE 1SS352-TPH3
D405	8-719-158-36	s	DIODE RD9.1SB1-T1
D406	8-749-011-36	s	PHOTO COUPLER TLP181(GR-TPR)
D407	8-719-800-76	s	DIODE 1SS226
D408	8-719-069-33	s	DIODE SFPB-69V
D409	8-719-987-21	s	DIODE SB02-09CP-TB
D410	8-719-510-11	s	DIODE D1FS4
D411	8-719-400-20	s	DIODE MA152WA
D412	8-719-158-36	s	DIODE RD9.1SB1-T1
D413	8-719-016-74	s	DIODE 1SS352-TPH3
D414	8-749-011-36	s	PHOTO COUPLER TLP181(GR-TPR)
D415	8-719-016-74	s	DIODE 1SS352-TPH3
F401	⚠ 1-532-777-21	s	FUSE 1.25A 125V
IC401	8-759-521-35	s	IC TL5001CD
IC402	8-759-169-49	s	IC TA78L15F-TE12L
IC403	8-759-245-47	s	IC TA78L09F-T1
IC404	8-759-926-07	s	IC SN74HC132ANS
IC405	8-759-250-81	s	IC TC5081AP

(PS-524-4 BOARD(for SPT-M124/M124CE))

Ref. No. or Q'ty	Part No.	SP	Description
L401	1-424-102-11	s	COIL, LINE FILTER
L402	1-412-028-11	s	INDUCTOR CHIP 4.7UH
L403	1-412-788-41	s	INDUCTOR 10UH
L404	1-412-788-41	s	INDUCTOR 10UH
L405	1-412-032-11	s	INDUCTOR CHIP 100UH
L406	1-412-788-41	s	INDUCTOR 10UH
L407	1-412-062-11	s	INDUCTOR CHIP 47UH
Q401	8-729-014-12	s	TRANSISTOR RN1311-TE85L
Q402	8-729-230-49	s	TRANSISTOR 2SC2712-YG
Q403	8-729-044-35	s	TRANSISTOR 2SB1216S-TL
R403	1-216-839-11	s	METAL, CHIP 33K 5% 1/16W
R404	1-208-789-11	s	RESCHIP 2K 0.50% 1/10W
R405	1-208-789-11	s	RESCHIP 2K 0.50% 1/10W
R406	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R407	1-216-849-11	s	METAL, CHIP 220K 5% 1/16W
R408	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R409	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R410	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R411	1-208-791-11	s	RESCHIP 2.4K 0.50% 1/10W
R412	1-208-791-11	s	RESCHIP 2.4K 0.50% 1/10W
R413	1-218-888-11	s	RESCHIP 51K 0.50% 1/16W
R414	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R415	1-218-864-11	s	RESCHIP 5.1K 0.50% 1/16W
R417	1-216-834-11	s	METAL, CHIP 12K 5% 1/16W
R420	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R421	1-216-818-11	s	METAL, CHIP 560 5% 1/16W
R422	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W
R423	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R424	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R425	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R426	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R427	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R428	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R429	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R430	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
RV401	1-238-856-11	s	RES, ADJ, CERMET 10K
T401	1-431-985-11	s	TRANSFORMER, CONVERTER

PS-524-8 BOARD(for SPT-M128CE)

Ref. No. or Q'ty	Part No.	SP	Description
C401	1-162-968-11	s	CERAMIC, CHIP 0.0047uF 10% 50V
C402	1-115-788-91	s	ELECT 820uF 20% 25V, CHIP
C403	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C405	1-107-826-11	s	CERAMIC 0.1uF 10% 16V
C406	1-107-826-11	s	CERAMIC 0.1uF 10% 16V
C407	1-162-974-11	s	CERAMIC, CHIP 0.01uF 50V
C408	1-107-826-11	s	CERAMIC 0.1uF 10% 16V
C409	1-127-554-11	s	ELECT 3.3uF 20% 25V
C410	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C411	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C412	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C413	1-127-558-11	s	ALUMN SOLID 10uF 20% 10V
C414	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C415	1-127-511-11	s	ELECT 6.8uF 20% 25V
C416	1-162-974-11	s	CERAMIC, CHIP 0.01uF 50V
C417	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C418	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C419	1-126-393-11	s	ELECT, CHIP 33uF 20% 10V
C420	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C421	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C422	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C423	1-126-399-11	s	ELECT, CHIP 10uF 20% 35V
C424	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C425	1-126-399-11	s	ELECT, CHIP 10uF 20% 35V
C426	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C427	1-101-821-00	s	CERAMIC 2200PF 500V
C428	1-101-821-00	s	CERAMIC 2200PF 500V
C429	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C430	1-107-826-11	s	CERAMIC 0.1uF 10% 16V
C431	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C432	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C433	1-126-603-11	s	ELECT 4.7uF 20% 35V
C434	1-128-595-11	s	ELECT 2.2uF 20% 50V
C435	1-126-391-11	s	ELECT, CHIP 47uF 20% 6.3V
C436	1-126-399-11	s	ELECT, CHIP 10uF 20% 35V
CN401	1-573-290-21	s	CONNECTOR (1.5MM) (SMD)4P, MALE
CN402	1-695-320-21	o	CONNECTOR (1.5MM)(SMD) 2P, MALE
CN403	1-691-591-11	s	CONNECTOR (1.5MM) (SMD)8P, MALE
D402	8-719-050-65	s	DIODE S1ZB60-TL
D403	8-719-158-15	s	DIODE RD5.6SB-T1
D404	8-719-016-74	s	DIODE 1SS352-TPH3
D408	8-719-069-33	s	DIODE SFPB-69V
D409	8-719-987-21	s	DIODE SB02-09CP-TB
D410	8-719-510-11	s	DIODE D1FS4
D411	8-719-400-20	s	DIODE MA152WA
D412	8-719-158-36	s	DIODE RD9.1SB1-T1
D413	8-719-016-74	s	DIODE 1SS352-TPH3
D414	8-749-011-36	s	PHOTO COUPLER TLP181(GR-TPR)
D415	8-719-016-74	s	DIODE 1SS352-TPH3
F401	⚠ 1-532-777-21	s	FUSE 1.25A 125V
IC401	8-759-521-35	s	IC TL5001CD
IC402	8-759-169-49	s	IC TA78L15F-TE12L
IC403	8-759-245-47	s	IC TA78L09F-T1
IC404	8-759-926-07	s	IC SN74HC132ANS
IC405	8-759-250-81	s	IC TC5081AP
JP401	1-216-296-91	s	SHORT 0

(PS-524-8 BOARD(for SPT-M128CE))

Ref. No. or Q'ty	Part No.	SP	Description
L401	1-424-102-11	s	COIL, LINE FILTER
L402	1-412-028-11	s	INDUCTOR CHIP 4.7UH
L403	1-412-788-41	s	INDUCTOR 10UH
L404	1-412-788-41	s	INDUCTOR 10UH
L405	1-412-032-11	s	INDUCTOR CHIP 100UH
L406	1-412-788-41	s	INDUCTOR 10UH
L407	1-412-062-11	s	INDUCTOR CHIP 47UH
L408	1-412-030-11	s	INDUCTOR CHIP 22UH
Q401	8-729-014-12	s	TRANSISTOR RN1311-TE85L
Q402	8-729-230-49	s	TRANSISTOR 2SC2712-YG
Q403	8-729-044-35	s	TRANSISTOR 2SB1216S-TL
R403	1-216-839-11	s	METAL, CHIP 33K 5% 1/16W
R404	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R406	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R407	1-216-849-11	s	METAL, CHIP 220K 5% 1/16W
R408	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R409	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R410	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R411	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R416	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R418	1-216-824-11	s	METAL, CHIP 1.8K 5% 1/16W
R419	1-216-295-91	s	RES, CHIP 0
R420	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R421	1-216-818-11	s	METAL, CHIP 560 5% 1/16W
R422	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W
R423	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R424	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R425	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R426	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R427	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R428	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R429	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R430	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
RV402	1-238-853-11	s	RES, ADJ, CERMET 1K
T401	1-431-984-11	s	TRANSFORMER, CONVERTER

4-4. PACKING MATERIALS & SUPPLIED ACCESSORIES

FRAME

Ref. No. or Q'ty		Part No.	SP	Description
1pc		1-239-231-11	s	FILTER, DATA LINE (for SPT-M128CE)
1pc	⚠	1-423-746-11	s	TRANSFORMER, POWER (for SPT-M128CE)
1pc	⚠	1-551-044-81	s	CORD, POWER (3 CORE) (for SPT-M128CE)
1pc		1-777-087-11	o	CABLE, FLEXIBLE FLAT (HN1) (CN101/BI-129 board to CN201/PR-241 board)
1pc		1-580-172-11	s	CONNECTOR,MICRO 4P, FEMALE (LENS)
1pc		1-580-173-11	s	CONNECTOR, MICRO (PLUG) 4P, MALE
1pc		3-864-014-11	s	MANUAL, INSTRUCTION
1pc		3-864-014-21	s	MANUAL, INSTRUCTION (for SPT-M122CE/M124CE/M128CE)

SECTION 5
SEMICONDUCTOR PIN ASSIGNMENTS

Semiconductors of which functions are equivalent are described here. For parts replacement, refer to the section of Spare Parts in this manual. The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

ここに記載されている半導体は，それぞれの機能を等価的に表したものです。　なお，互換性のない型名を併記していることがありますので，部品を交換するときは，Spare Partsの章を参照してください。
等価回路はICメーカーのデータブックに従いました。

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MA153-TX 5-2

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RD5.6SB-T1 5-2
RD9.1SB1 5-2
RD9.1SB1-T1 5-2

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SB02-09CP-TB 5-2
SFPB-69V 5-2

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2SC3649-S-TD 5-2
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2SK711-BL 5-2
2SK711-BL/V-TE85L 5-2

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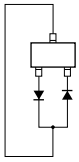
TL5001CDR 5-5

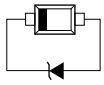
DIODE

—TOP VIEW—



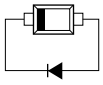
1SS226
MA133
MA133-TX
MA153-TX

—TOP VIEW—



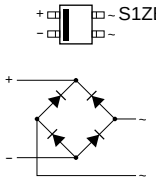
RD20SB-T1
RD5.6SB
RD5.6SB-T1
RD9.1SB1
RD9.1SB1-T1

—TOP VIEW—

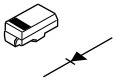


1SS352
1SS352-TPH3
1T363
1T363A-M20-T8A

—TOP VIEW—



S1ZB60-TL

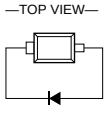


D1FS4
D1FS4-TB
SFPB-69V

—TOP VIEW—

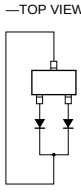
SB02-09CP-TB

—TOP VIEW—



MA111
MA111-TX

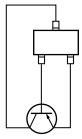
—TOP VIEW—



MA152WA
MA152WA-TX

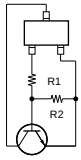
TRANSISTOR

—TOP VIEW—



2SA1586-YG
2SA1586YG-TE85L

—TOP VIEW—



DTC114TUA-T106

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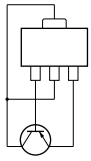
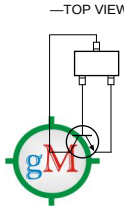


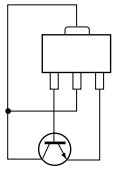
2SB1216S-TL

—TOP VIEW—



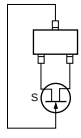
2SC2712-YG
2SC2712L-TE85L
2SC4116-YG
2SC4116YG-TE85L
RN1311-TE85L

—TOP VIEW—



2SC3649-S-TD
2SD1615A-GP

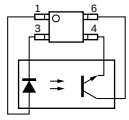
—TOP VIEW—



2SK711-BL
2SK711-BL/V-TE85L

OTHERS

—TOP VIEW—

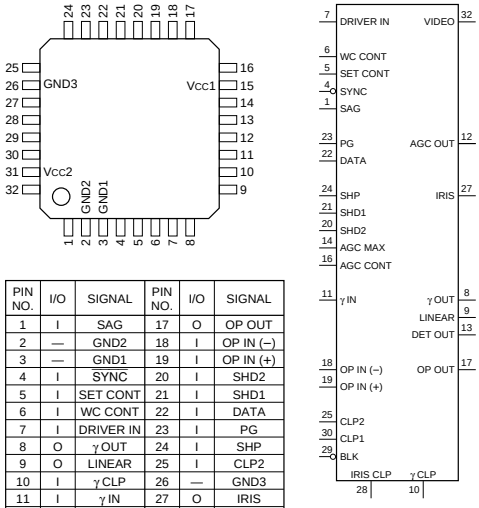


TLP181(GR-TPR)

IC

CXA1310AQ (SONY)
CXA1310AQ-TH

1 CHIP PROCESS FOR CCD BLACK AND WHITE
—TOP VIEW—



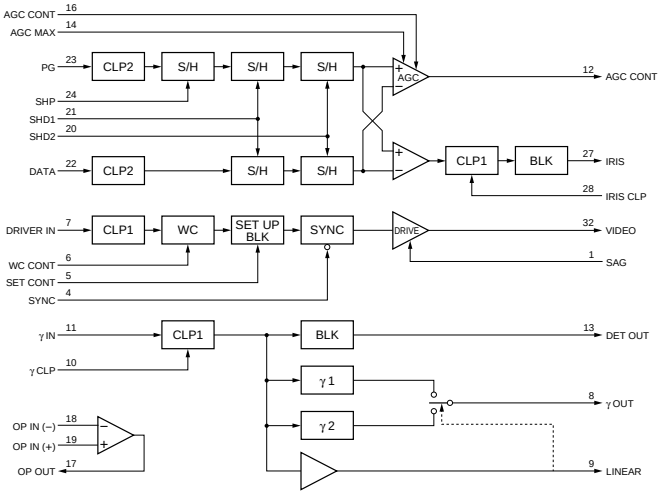
PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	SAG	17	O	OP OUT
2	—	GND2	18	I	OP IN (–)
3	—	GND1	19	I	OP IN (+)
4	I	$\overline{\text{SYNC}}$	20	I	SHD2
5	I	SET CONT	21	I	SHD1
6	I	WC CONT	22	I	DATA
7	I	DRIVER IN	23	I	PG
8	O	γ OUT	24	I	SHP
9	O	LINEAR	25	I	CLP2
10	I	γ CLP	26	—	GND3
11	I	γ IN	27	O	IRIS
12	O	AGC OUT	28	I	IRIS CLP
13	O	DET OUT	29	I	$\overline{\text{BLK}}$
14	I	AGC MAX	30	I	CLP1
15	—	Vcc1	31	—	Vcc2
16	I	AGC CONT	32	O	VIDEO

INPUT

AGC CONT	:	AGC AMPLIFIER GAIN CONTROL
AGC MAX	:	AGC AMPLIFIER MAX GAIN
BLK	:	BLK PULSE
CLP1, CLP2	:	CLP1, 2 PULSE
DATA	:	CCD SIGNAL
DRIVER IN	:	DRIVER
IRIS CLP	:	IRIS OUTPUT CLAMP
OP IN (+)	:	OPERATIONAL AMPLIFIER NON-TURX
OP IN (–)	:	OPERATIONAL AMPLIFIER TURN
PG	:	CCD SIGNAL
SAG	:	SAG CORRECTION SIGNAL
SET CONT	:	SETUP LEVEL ADJUSTMENT
SHD1, SHD2	:	SAMPLE HOLD PULSE
SHP	:	SAMPLE HOLD PULSE
SYNC	:	SYNC PULSE
WC CONT	:	WHITE CLIP LEVEL ADJUSTMENT
γ CLP	:	γ INPUT CLAMP
γ IN	:	γ ADJUSTMENT

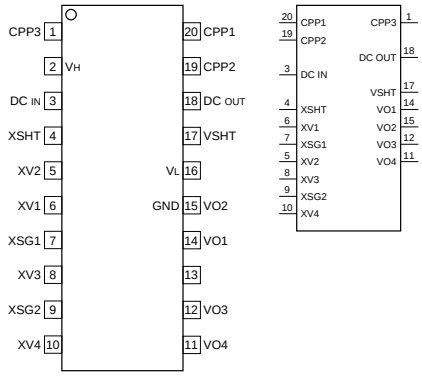
OUTPUT

AGC OUT	:	AGC SIGNAL
DET OUT	:	AGC DETECTION SIGNAL
IRIS	:	IRIS CONTROL SIGNAL
LINEAR	:	LINEAR SIGNAL
OP OUT	:	OPERATIONAL AMPLIFIER
VIDEO	:	VIDEO SIGNAL
γ OUT	:	γ CORRECTION SIGNAL



CXD1267AN-T4 (SONY)FLAT PACKAGE

C-MOS VERTICAL CLOCK DRIVER FOR CCD
—TOP VIEW—



INPUT

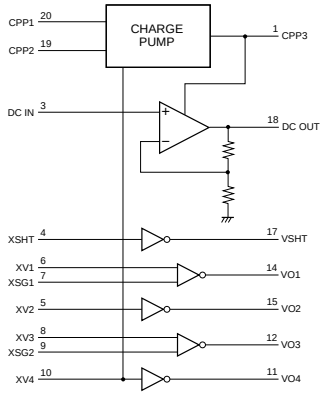
DCIN	:	OPERATIONAL AMPLIFIRE
XSG1, XSG2	:	SENSOR GATE PULSE
XSHT	:	SAMPLE AND HOLD PULSE
XV1 - XV4	:	VERTICAL REGISTER TRANSMISSION CLOCK

OUTPUT

CPP3	:	CHARGE PUMP
DC OUT	:	OPERATIONAL AMPLIFIRE
VSHT	:	SAMPLE AND HOLD PULSE
VO1 - VO4	:	VERTICAL REGISTER TRANSMISSION CLOCK

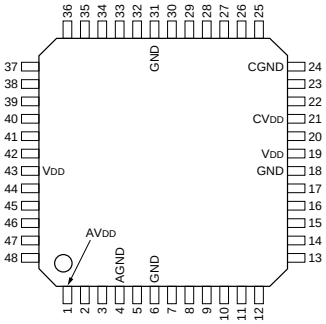
INPUT				OUTPUT		
XV1, 3	XSG1, 2	XV2, 4	XSHT	VO1, 3	VO2, 4	VSHT
0	0	×	×	↓	×	×
1	0	×	×	HI-Z	×	×
0	1	×	×	GND	×	×
1	1	×	×	↓	×	×
×	×	0	×	×	GND	×
×	×	1	×	×	↓	×
×	×	×	0	×	×	↓
×	×	×	1	×	×	↓

0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE
HI-Z : HIGH IMPEDANCE

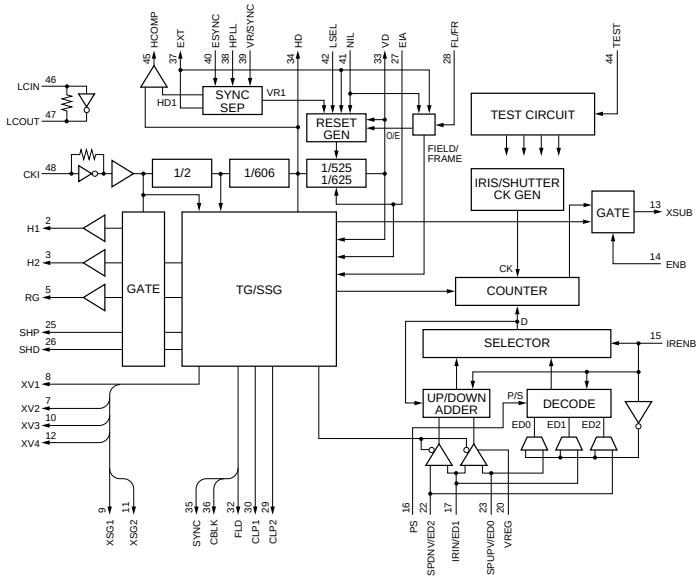


CXD2400R (SONY)
CXD2400R-T4

C-MOS TIMING CONTROLLER FOR CCD CAMERAS
—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	—	AVDD	13	O	XSUB	25	O	SHP	37	O	EXT
2	O	H1	14	I	ENB	26	O	SHD	38	I	HPLL
3	O	H2	15	I	IRENB	27	I	EIA	39	I	VR/SYNC
4	—	AGND	16	I	PS	28	I	FL/FR	40	I	ESYNC
5	O	RG	17	I	IRIN/ED1	29	O	CLP2	41	I	NIL
6	—	GND	18	—	GND	30	O	CLP1	42	I	LSEL
7	O	XV2	19	—	VDD	31	—	GND	43	—	VDD
8	O	XV1	20	—	VREG	32	O	FLD	44	I	TEST
9	O	XSG1	21	I	CVDD	33	O	VD	45	O	HCOMP
10	O	XV3	22	I	SPDNV/ED2	34	O	HD	46	I	LCIN
11	O	XSG2	23	I	SPUPV/ED0	35	O	SYNC	47	O	LCOUT
12	O	XV4	24	—	CGND	36	O	CBLK	48	I	CKI



INPUT

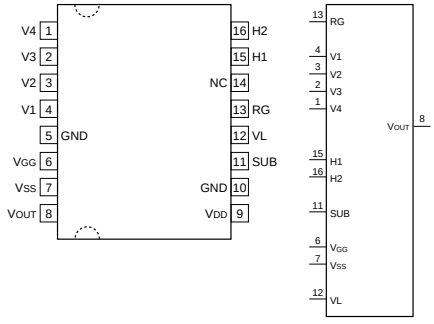
CKI	:	CLOCK
ED0 - ED2	:	SHUTTER SPEED SETTING
EIA	:	EIA/CCIR SYSTEM SELECT
ENB	:	ON/OFF CONTROL OF XSUB SIGNAL
ESYNC	:	SYNC LOCK SELECT SIGNAL
FL/FR	:	ODD/EVEN FIELD SELECT
HPLL	:	HORIZONTAL DRIVE SIGNAL
IRENB	:	ELECTRONIC SHUTTER/IRIS MODE SELECT
IRIN	:	IRIS SIGNAL
LCIN	:	INVERTING INPUT FOR OSCILLATOR
LSEL	:	LINE SELECT
NIL	:	INTERLACE MODE SELECT
PS	:	ELECTRONIC SHUTTER SPEED INPUT METHOD SELECT
SPDNV	:	REFERENCE VOLTAGE FOR DECREASING THE SHUTTER SPEED
SPUPV	:	REFERENCE VOLTAGE FOR INCREASING THE SHUTTER SPEED
TEST	:	TEST
VR/SYNC	:	VERTICAL DRIVE/COMPOSITE SYNC SIGNAL
VREG	:	COMPARATOR'S BIAS CURRENT

OUTPUT

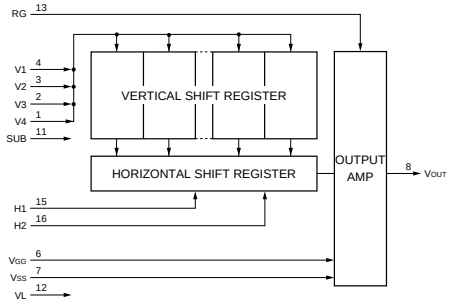
CBLK	:	COMPOSITE BLANKING SIGNAL
CLP1, CLP2	:	CLAMP PULSE
EXT	:	EXT SYNC/INT SYNC DISCRIMINATION SIGNAL
FLD	:	ODD/EVEN FIELD DISCRIMINATION SIGNAL
H1, H2	:	CCD'S HORIZONTAL REGISTER DRIVING CLOCK
HCOMP	:	HORIZONTAL COMPARATOR
HD	:	HORIZONTAL DRIVE SIGNAL
LCOUT	:	INVERTING OUTPUT FOR OSCILLATOR
RG	:	RESET GATE PULSE
SHD	:	SAMPLE AND HOLD PULSE FOR DATA
SHP	:	SAMPLE AND HOLD PULSE PRE-CHARGE LEVEL
SYNC	:	COMPOSITE SYNC SIGNAL
VD	:	VERTICAL DRIVE SIGNAL
XSG1, XSG2	:	CCD SENSOR'S ELECTRON CHARGE READ OUT PULSE
XSUB	:	CCD'S ELECTRON CHARGE WIPE OUT PULSE
XV1 - XV4	:	CCD'S VERTICAL REGISTER DRIVING CLOCK

ICX054AL-A (SONY)
ICX055AL-A (SONY)

1/3-INCH CCD IMAGE BLOCK
—TOP VIEW—

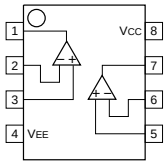


H1, H2	:	HORIZONTAL REGISTER TRANSFER CLOCK
RG	:	RESET GATE CLOCK
SUB	:	OVERFLOW DRAIN
VGG	:	OUTPUT AMP GATE BIAS
VL	:	PROTECTION TRANSISTOR BIAS
VSS	:	OUTPUT AMP SOURCE
V1 - V4	:	VERTICAL REGISTER TRANSFER CLOCK
VOUT	:	SIGNAL OUTPUT



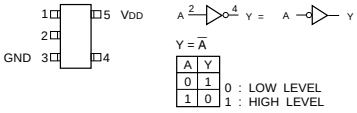
LM358D (TI)FLAT PACKAGE
LM358DR-E2

DUAL OPERATIONAL AMPLIFIERS
(SINGLE-SUPPLY TYPE)
—TOP VIEW—



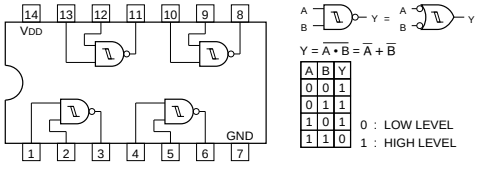
SC7S04F (MOTOROLA)CHIP PACKAGE
TC7S04F(TE85R)

C-MOS INVERTER
—TOP VIEW—



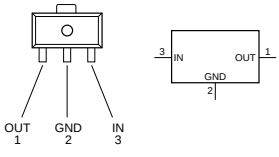
SN74HC132ANS (TI)FLAT PACKAGE
SN74HC132ANS-E05

C-MOS QUAD 2-INPUT NAND SCHMITT TRIGGER
—TOP VIEW—



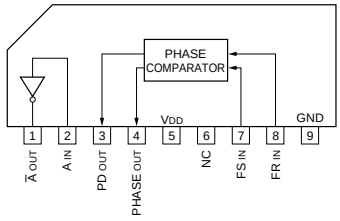
TA78L09F-TE12L (TOSHIBA)+12 V(100 mA)
TA78L15F-TE12L (TOSHIBA)+12 V(100 mA)

POSITIVE VOLTAGE REGULATOR
—SIDE VIEW—

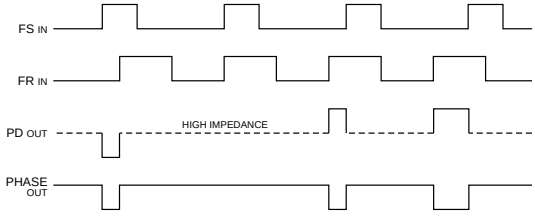


TC5081AP (TOSHIBA)

C-MOS PHASE COMPARATOR
—SIDE VIEW—

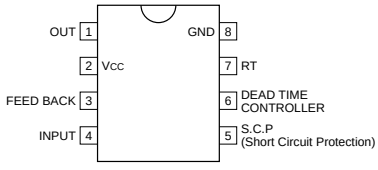


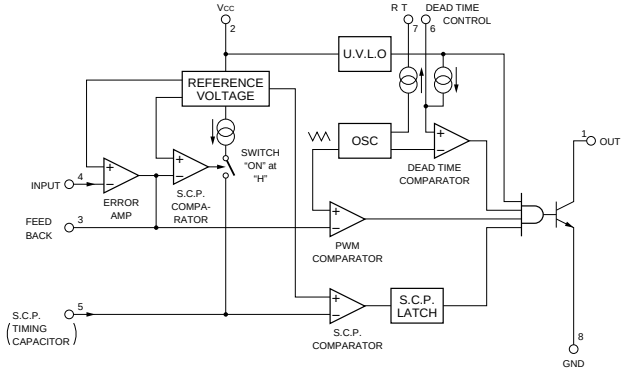
PHASE COMPARATOR TIMING CHART



TL5001CD (TI)
TL5001CDR

SWITCHING REGULATOR CONTROLLER
—TOP VIEW—

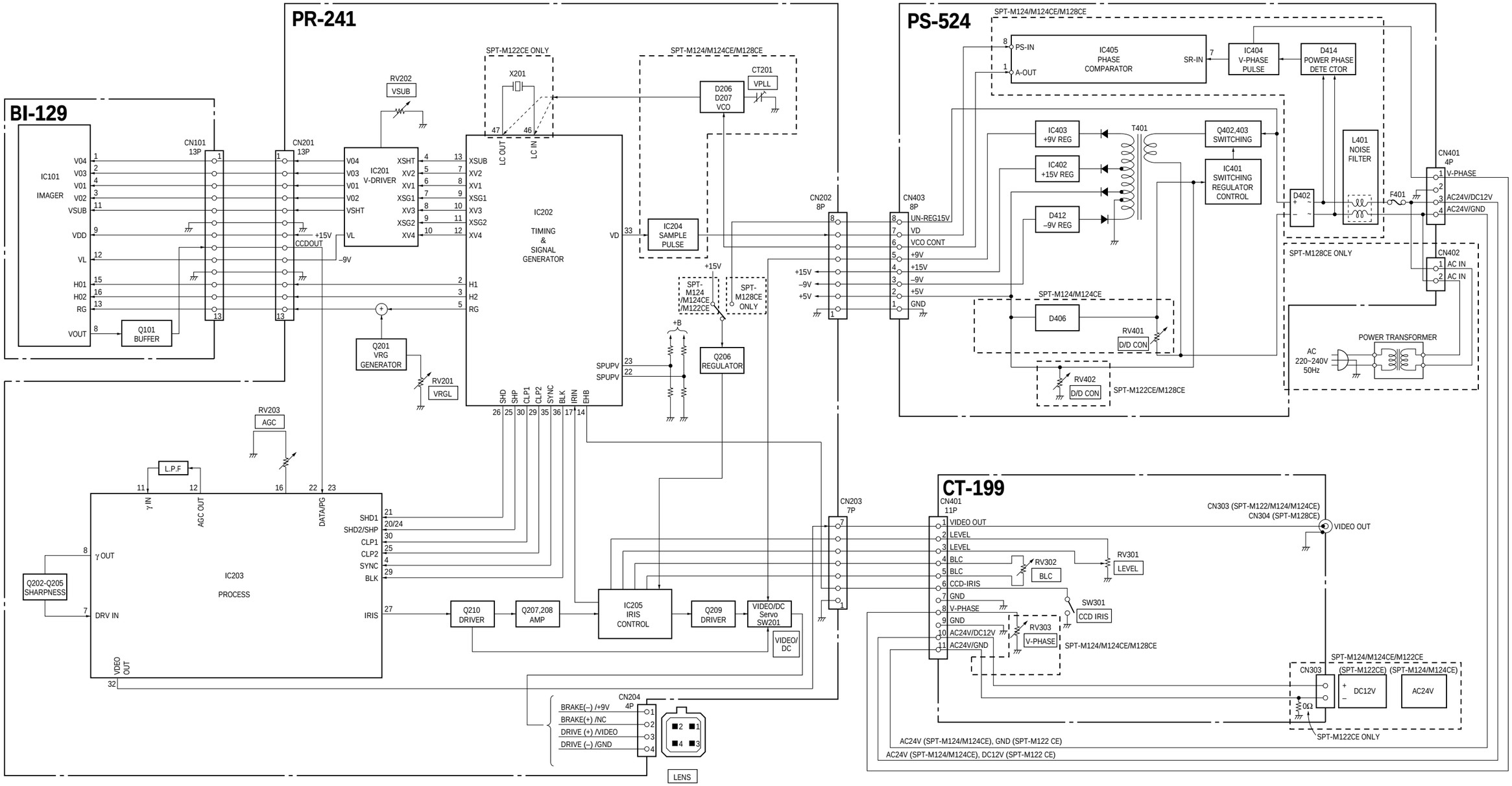




http://getMANUAL.com

SECTION 6
DIAGRAMS

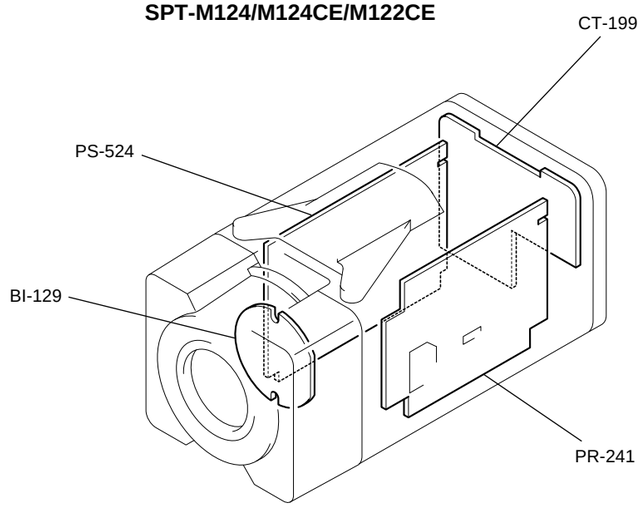
6-1. BLOCK DIAGRAM



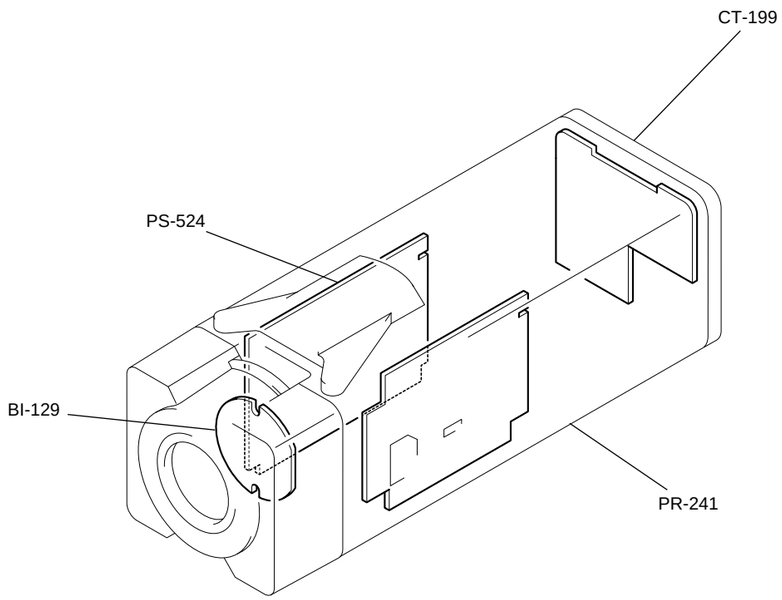
6-2. PRINTED CIRCUIT BOARDS AND SCHEMATIC DIAGRAMS

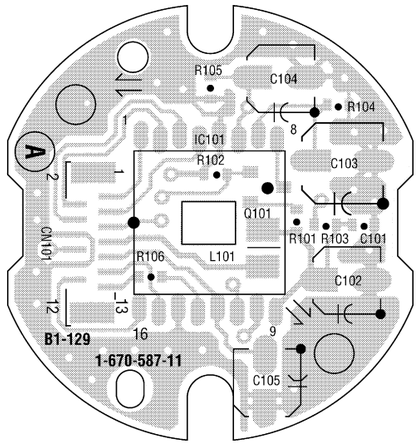
BOARD LOCATION

SPT-M124/M124CE/M122CE

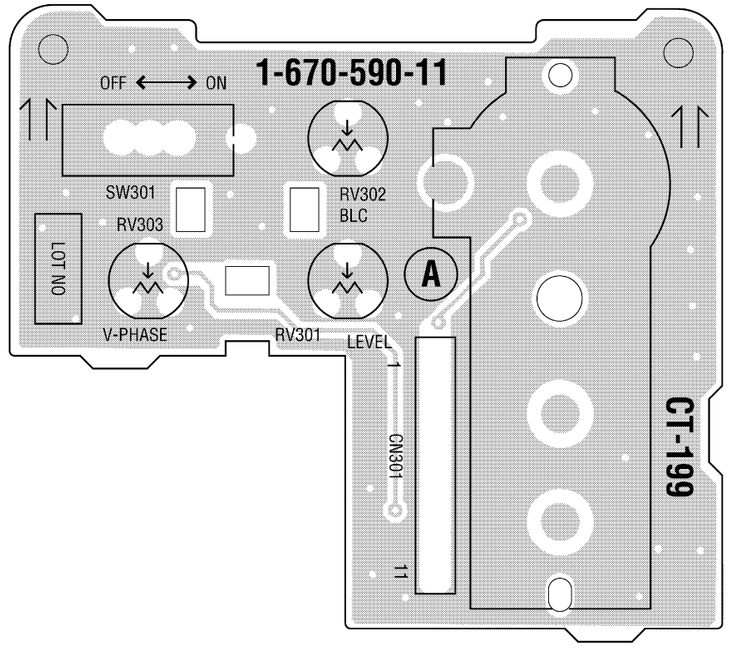


SPT-M128CE

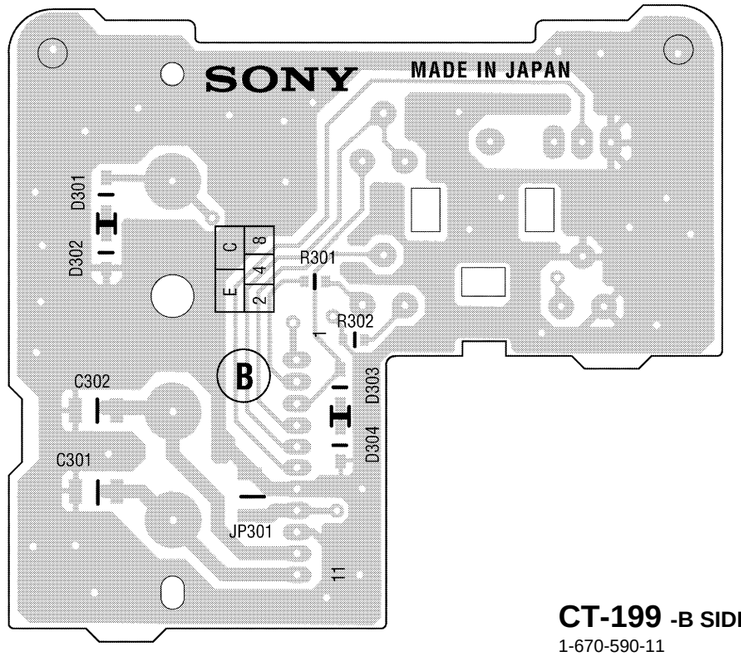




BI-129 -A SIDE-
1-670-587-11

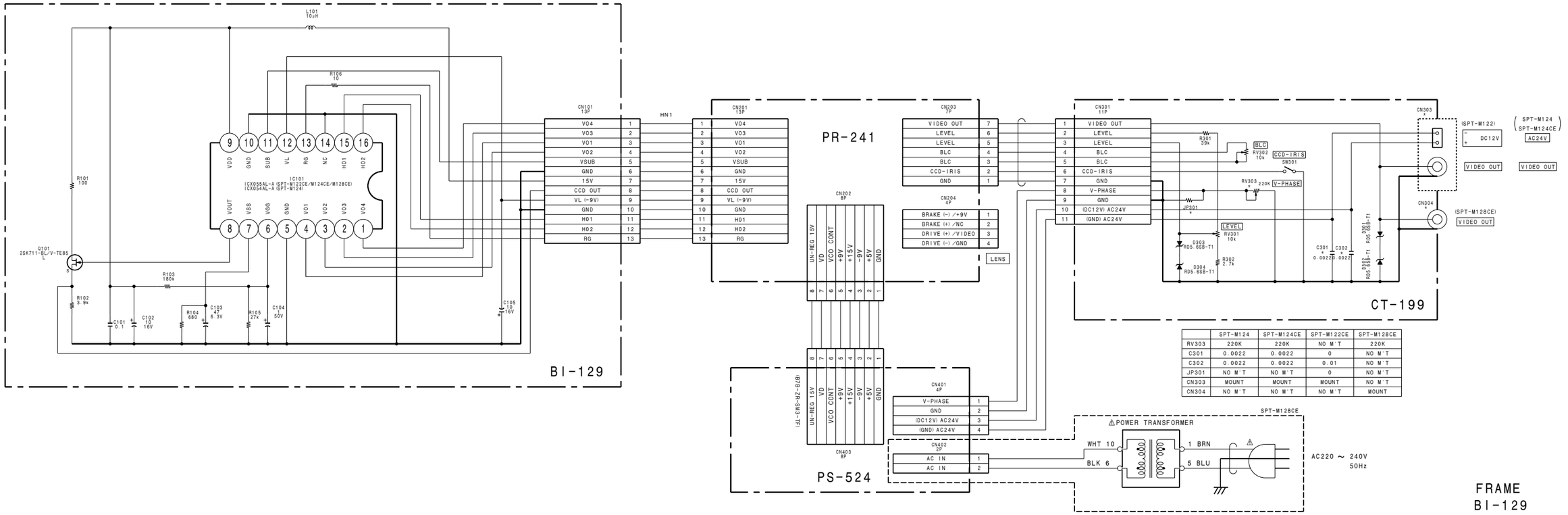


CT-199 -A SIDE-
1-670-590-11



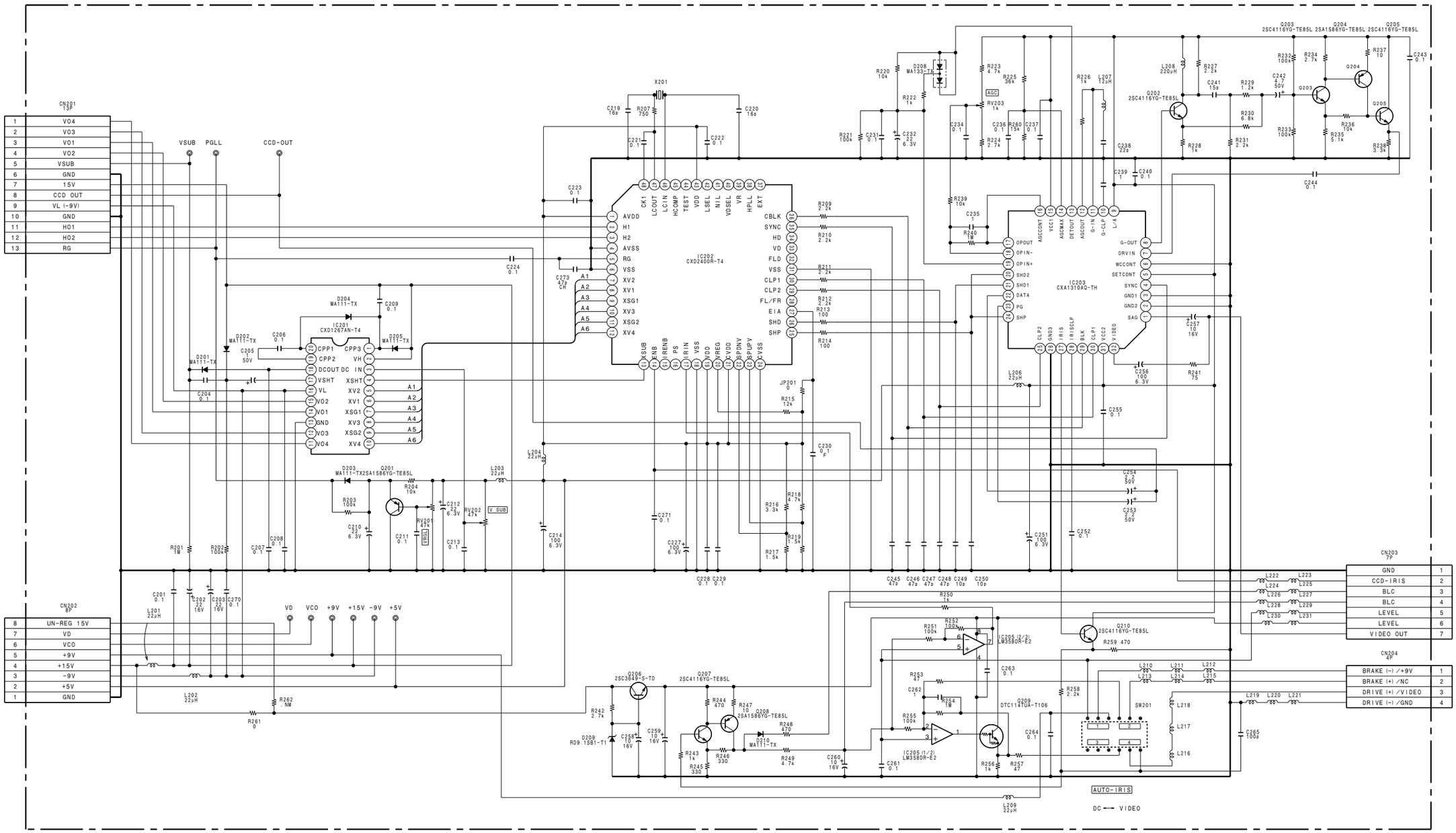
CT-199 -B SIDE-
1-670-590-11

FRAME BI-129 CT-199

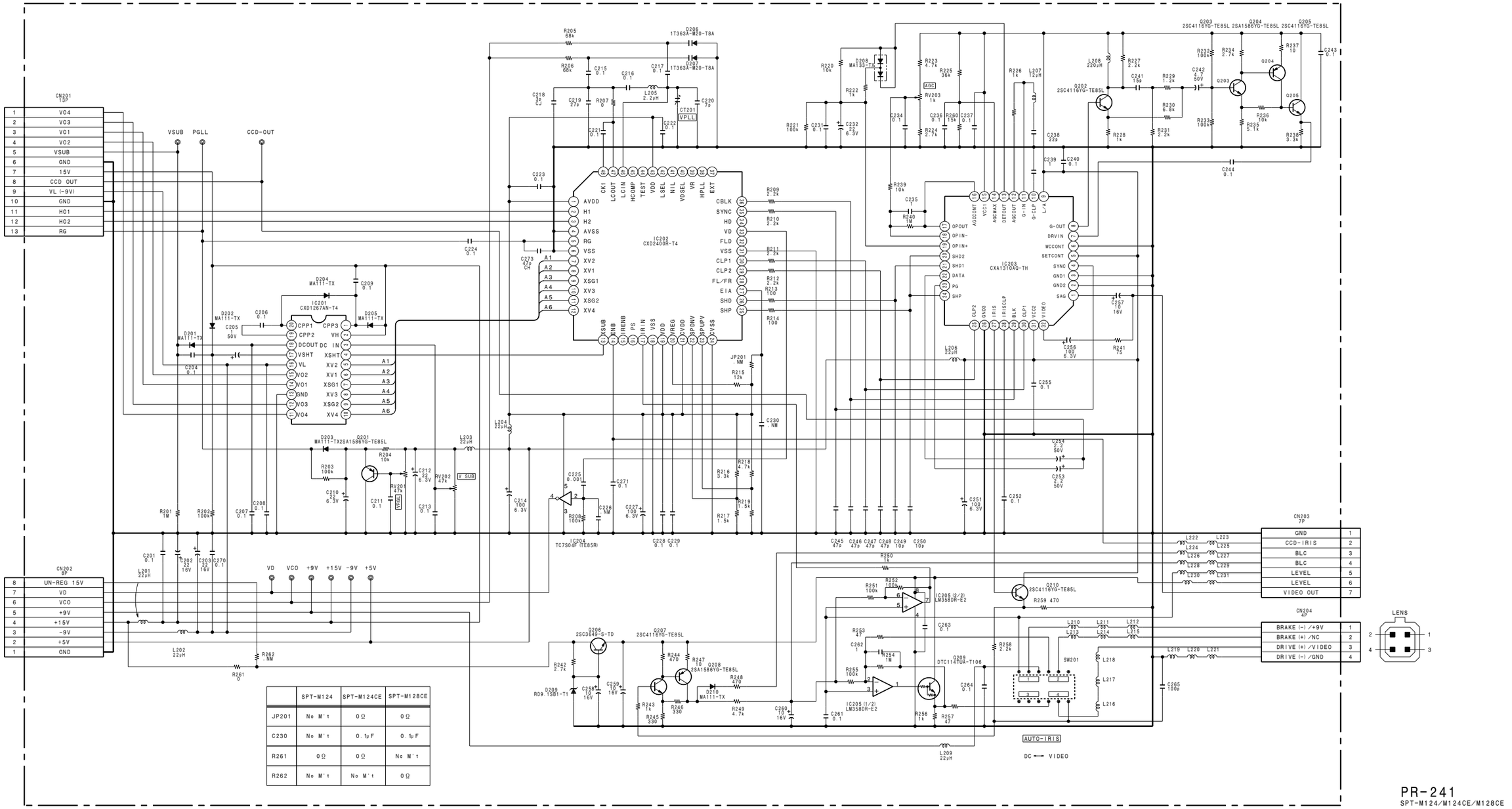


	SPT-M124	SPT-M124CE	SPT-M122CE	SPT-M128CE
RV303	220K	220K	NO M'T	220K
C301	0.0022	0.0022	0	NO M'T
C302	0.0022	0.0022	0.01	NO M'T
JP301	NO M'T	NO M'T	0	NO M'T
CN303	MOUNT	MOUNT	MOUNT	NO M'T
CN304	NO M'T	NO M'T	NO M'T	MOUNT

FRAME
BI-129
CT-199


CN201 13P
1 VO4
2 VO3
3 VO1
4 VO2
5 VSUB
6 GND
7 15V
8 CCD OUT
9 VL (-9V)
10 GND
11 HO1
12 HO2
13 RG
VSUB PGLL CCD-OUT
X201
IC202 CXD2400R-T4
AVDD H1 H2 AVSS RG VSS XV2 XV1 XSG1 XV3 XSG2 XV4
CBLK SYNC HD VD FLD VSS CLP1 CLP2 FL/FR EIA SHD SHP
IC201 CXD1267AN-T4
IC203 CXA1310AQ-TH
OPOUT OPIN- OPIN+ SHD2 SHD1 DATA PG SHP
G-OUT DRVIN WCONT SETCONT SYNC GND1 GND2 SAG
IC205(1/2) LM358DR-E2
Q202 2SC4116YG-TE85L
Q203 2SC4116YG-TE85L
Q204 2SA1586YG-TE85L
Q205 2SC4116YG-TE85L
Q206 2SC3648-S-TD
Q207 2SC4116YG-TE85L
Q208 2SA1586YG-TE85L
Q209 DTC114TUA-T106
Q210 2SC4116YG-TE85L
D201 MA111-TX
D202 MA111-TX
D203 MA111-TX2SA1586YG-TE85L
D204 MA111-TX
D205 MA111-TX
D208 MA133-TX
D209 RD9.1SB1-T1
D210 MA111-TX
AUTO-IRIS
DC ⟷ VIDEO
CN202 8P
8 UN-REG 15V
7 VD
6 VCO
5 +9V
4 +15V
3 -9V
2 +5V
1 GND
VD VCO +9V +15V -9V +5V
CN203 7P
GND
CCD-IRIS
BLC
BLC
LEVEL
LEVEL
VIDEO OUT
CN204 4P
BRAKE (-) /+9V
BRAKE (+) /NC
DRIVE (+) /VIDEO
DRIVE (-) /GND
LENS
PR-241
SPT-M122CE

PR-241 (SPT-M124/M124CE/M128CE)

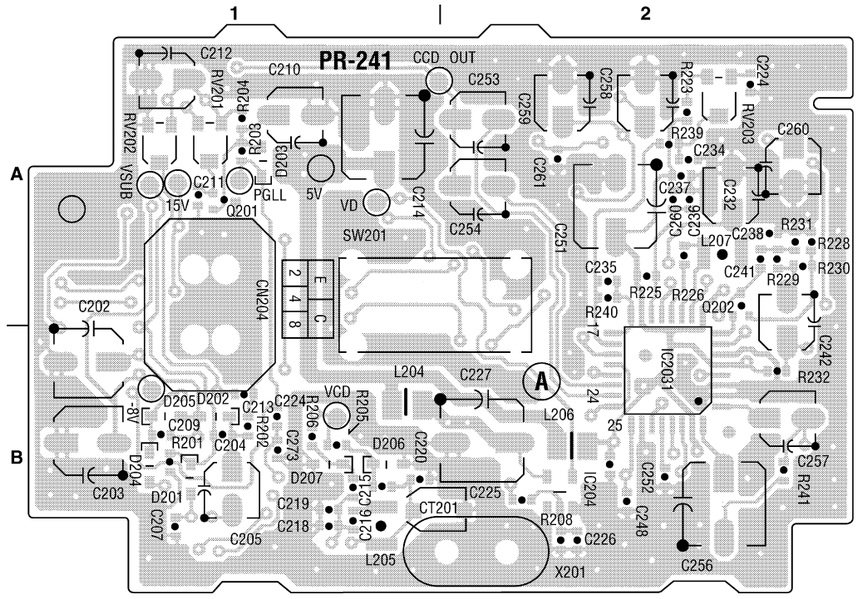


	SPT-M124	SPT-M124CE	SPT-M128CE
JP201	No Mᵀt	0Ω	0Ω
C230	No Mᵀt	0.1µF	0.1µF
R261	0Ω	0Ω	No Mᵀt
R262	No Mᵀt	No Mᵀt	0Ω

PR-241
SPT-M124/M124CE/M128CE

PR-241
*: B side

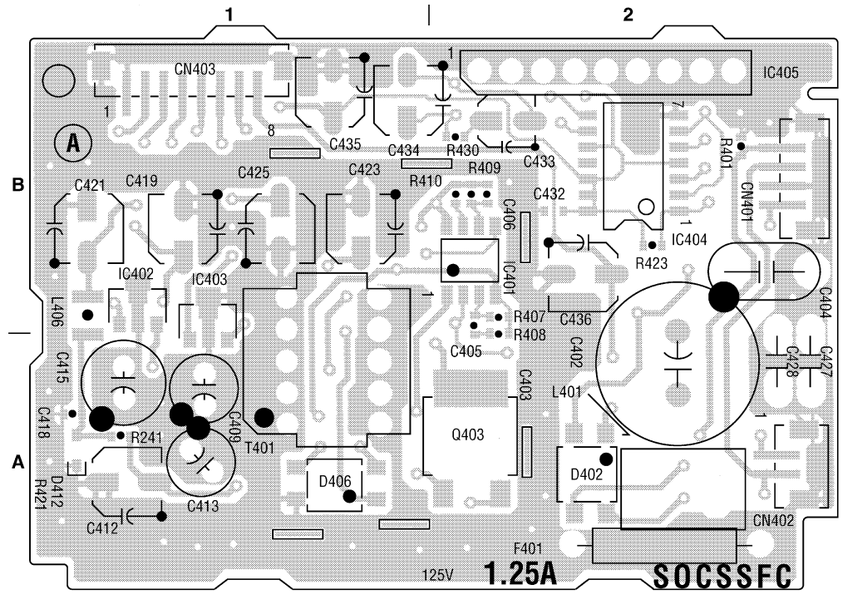
CN201	*A1
CN202	*A1
CN203	*A2
CT201	B1
D201	B1
D202	B1
D203	A1
D204	B1
D205	B1
D206	B1
D207	B1
D208	*A2
D209	*A2
D210	*A2
IC201	*B1
IC202	*B1
IC203	B2
IC204	B2
IC205	*A2
JP201	*B2
L201	*A1
L202	*A1
L203	*A1
L204	B1
L205	B1
L206	B2
L207	A2
L208	*A2
L209	*A1
L210	*A1
L211	*A1
L212	*A1
L213	*A1
L214	*A1
L215	*A1
L216	*B1
L217	*B1
L218	*B1
L219	*A1
L220	*A1
L221	*A1
L222	*A2
L223	*A2
L224	*A2
L225	*A2
L226	*A2
L227	*A2
L228	*A2
L229	*A2
L230	*A2
L231	*A2
Q201	A1
Q202	A2
Q203	*B2
Q204	*B2
Q205	*B2
Q206	*A2
Q207	*A2
Q208	*A2
Q209	*A2
Q210	*B2
RV201	A1
RV202	A1
RV203	A2
SW201	A1



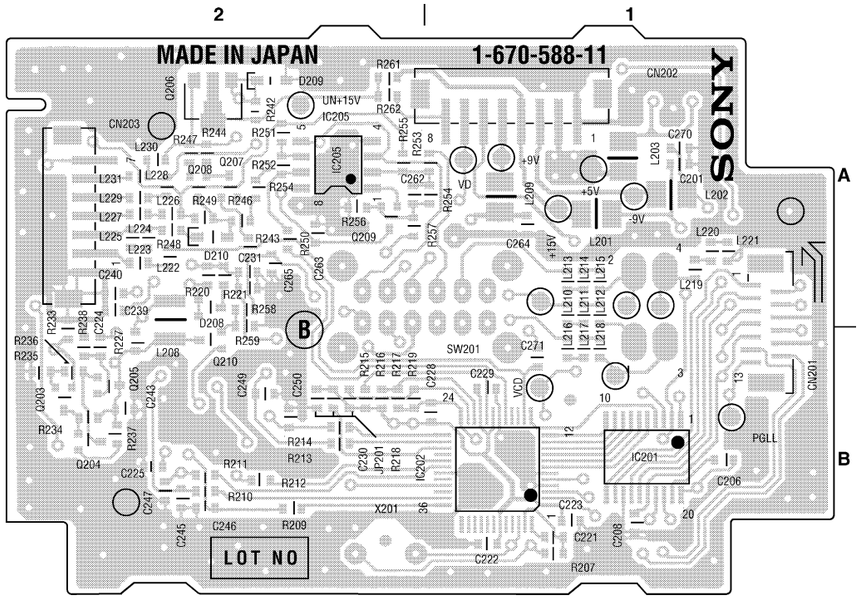
PR-241 -A SIDE-
1-670-588-11

PS-524
*: B side

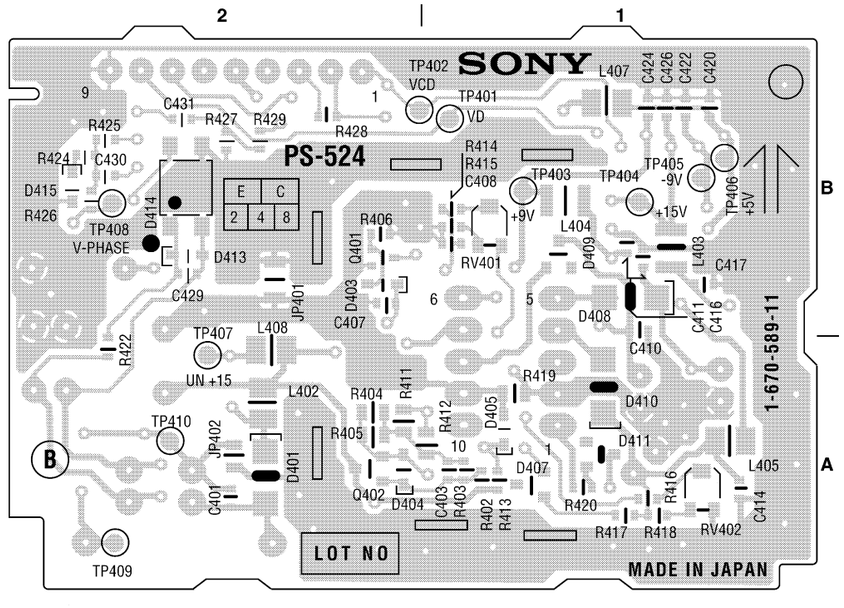
CN401	B2
CN402	A2
CN403	B1
D402	A2
D403	*B2
D404	*A2
D408	*B1
D409	*B1
D410	*A1
D411	*A1
D412	A1
D413	*B2
D414	*B2
D415	*B2
F401	A2
IC401	B2
IC402	B1
IC403	B1
IC404	B2
IC405	B2
JP401	*B2
L401	A2
L402	*A2
L403	*B1
L404	*B1
L405	*A1
L406	B1
L407	*B1
L408	*A2
Q401	*B2
Q402	*A2
Q403	A2
RV402	*A1
T401	A1



PS-524 -A SIDE-
1-670-589-11

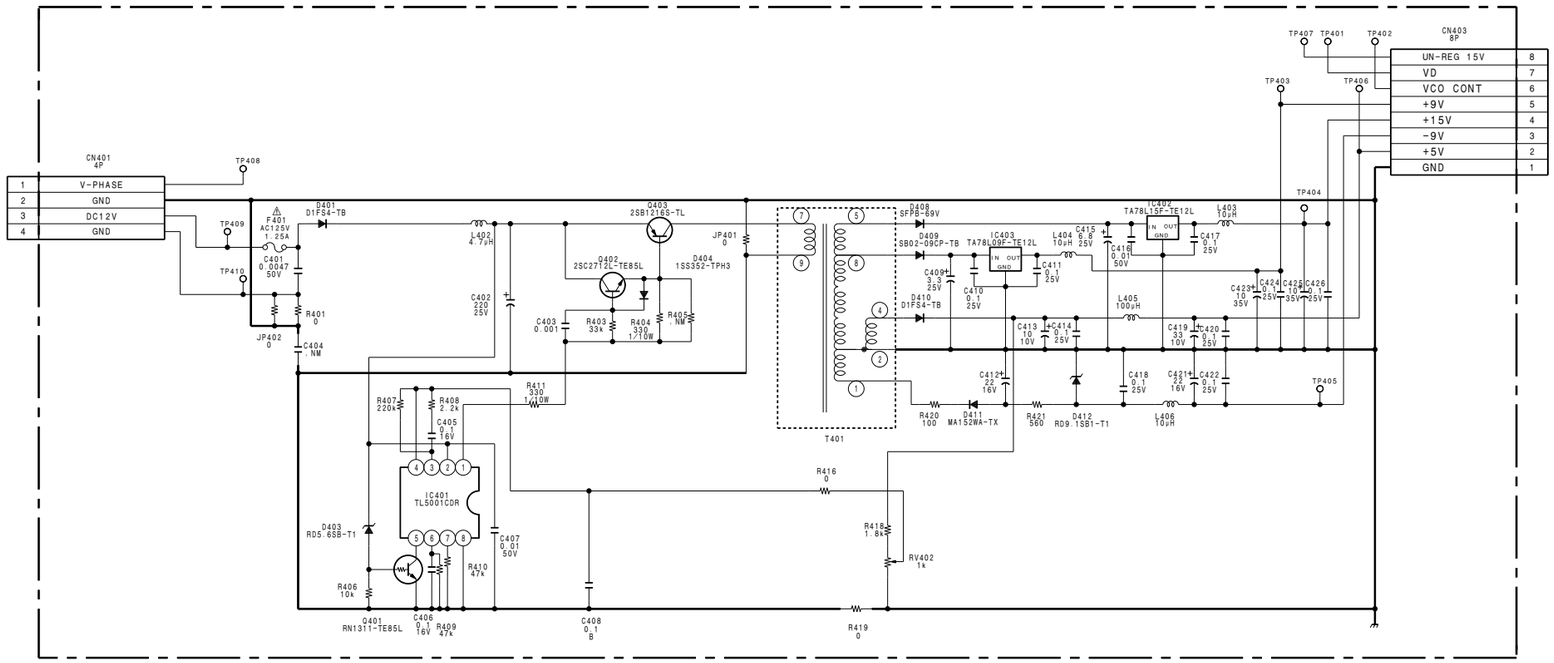


PR-241 -B SIDE-
1-670-588-11

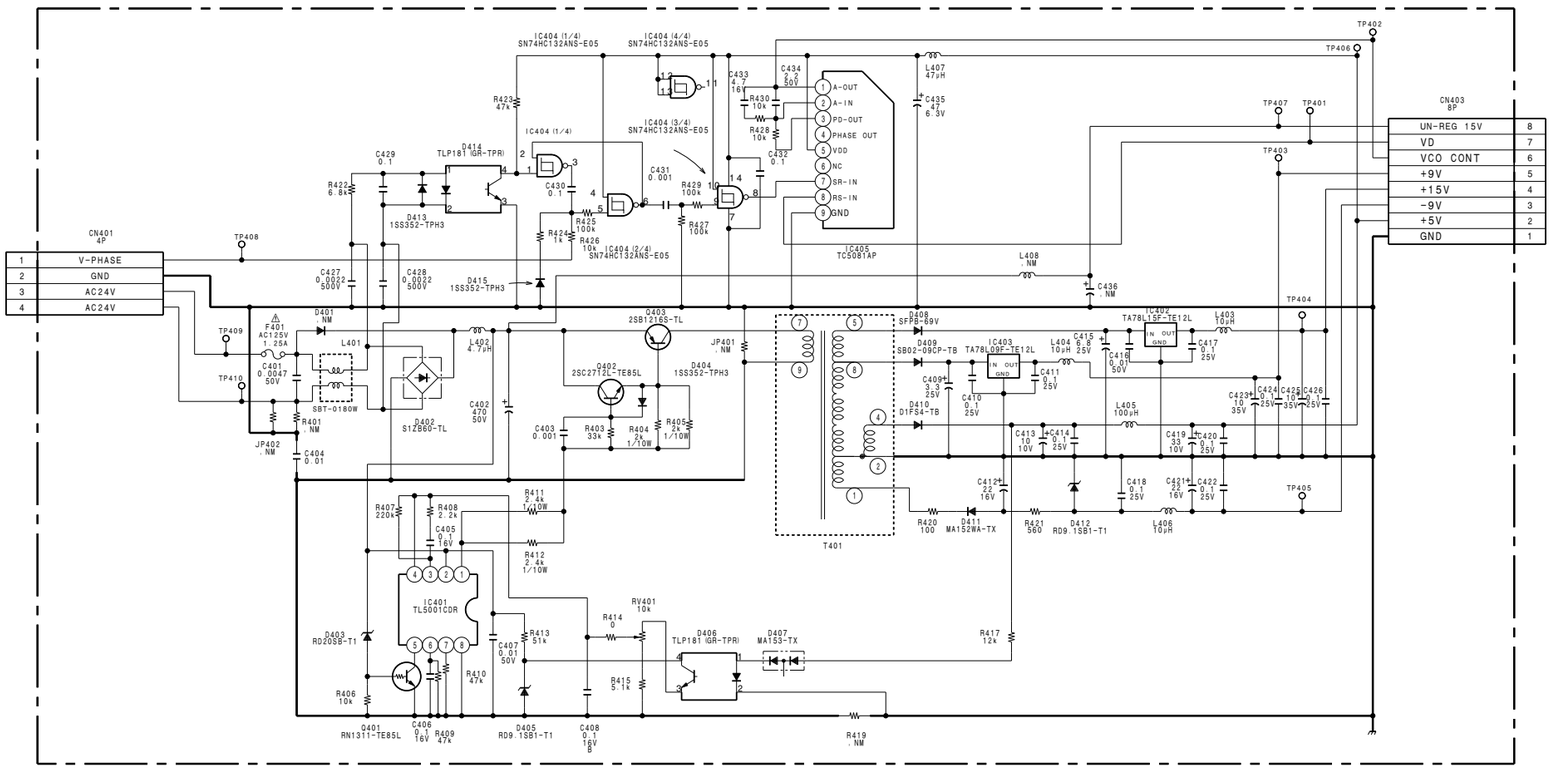


PS-524 -B SIDE-
1-670-589-11

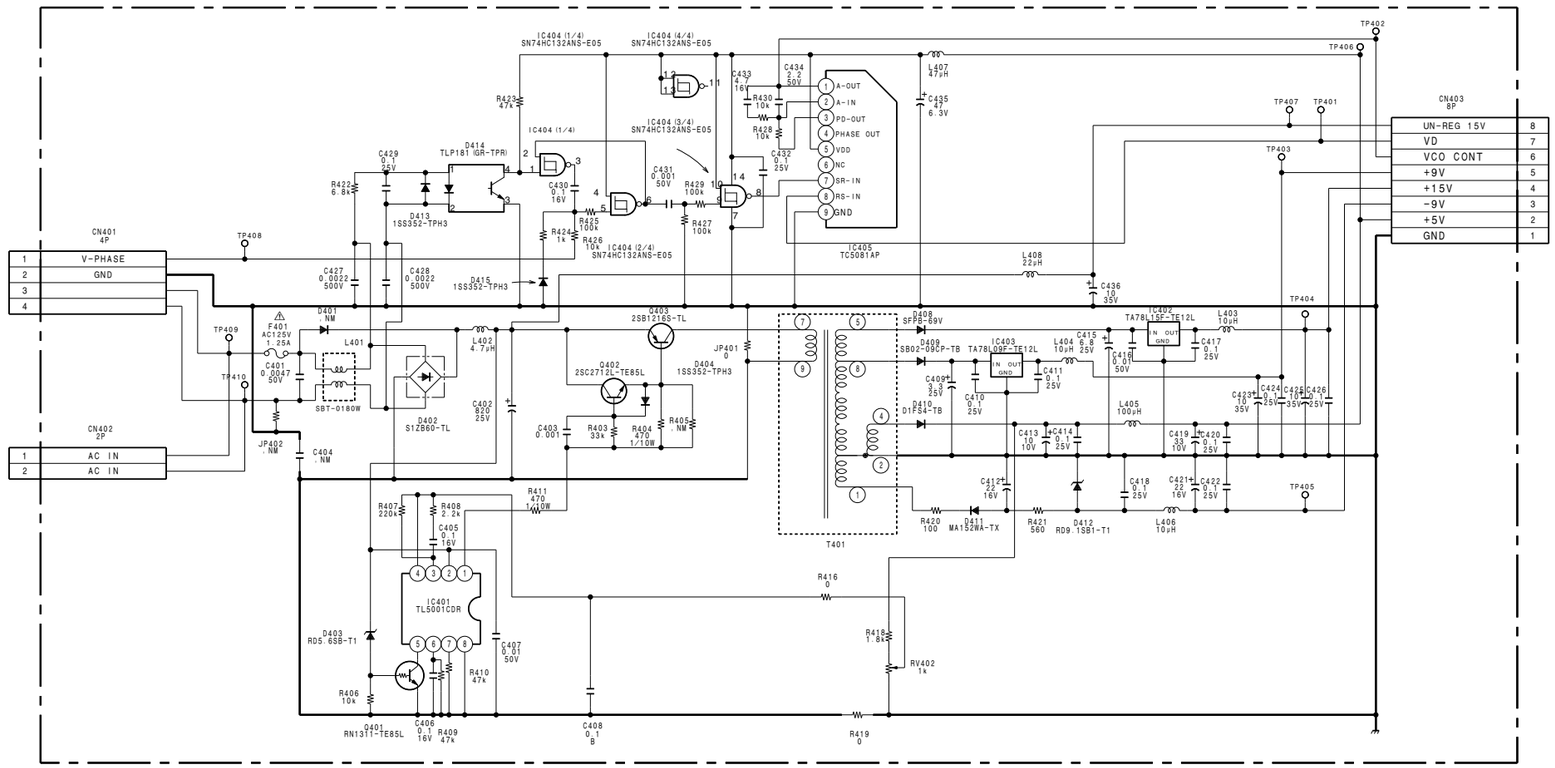
PS-524 (SPT-M122CE/M124/M124CE)



PS-524
SPT-M122CE



PS-524
SPT-M124/M124CE



PS-524
SPT-M128CE

SPT-M124 (UC) E
SPT-M122CE/M124CE/M128CE(CE)E
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